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CENTRAL ADMINISTRATION OF ECONOMIC AND SOCIAL STATISTICS
OF THE STATE PLANNING COMMISSION OF THE U. S. S. R.

SOCIALIST CONSTRUCTION IN THE U. S. S. R.

STATISTICAL ABSTRACT

SOYUZORGOUCHET
MOSCOW
1936

PREFACE

The data in this volume are based on the material contained in the Annual Statistical Abstract for 1935 and 1936, issued by the Central Administration of Economic and Social Statistics of the State Planning Commission of the U. S. S. R.

The general indices, as well as the more detailed statistics of the various branches of national economy, represent the development and main aspects of Socialist construction in the Soviet Union. The figures demonstrate the fundamental fact of the transformation of the U. S. S. R. into a Socialist State. Thus, in 1935 socialized national economy constituted 97.8 per cent of the total national income; socialized industry 99.71 per cent of the total gross output of industry; socialized agriculture 93.6 per cent of the total gross output of agriculture; collectivized peasant farmsteads 89.4 per cent, as at April 1, 1936.

The series of tables indicate the results of Socialist industrialization and technical reconstruction. Thus, the share of industrialized production in total production of industry and agriculture rose from 40.6 per cent in 1913 to 54.5 per cent in 1929 and 74.9 per cent in 1935. The share of production of means of production in total industrial production increased from 40.7 per cent in 1913 to 45.0 per cent in 1929 and 59.0 per cent in 1935.

The extent of technical reconstruction may be illustrated by the following data taken from the general figures which appear in the corresponding sections of the present volume: Capital investments in the Socialist sector of national economy increased from 5.9 billions of rubles in 1929 to 24.0 billions of rubles in 1935; fixed capital in the Socialist sector of national economy rose from 52.6 billions of rubles (in fixed prices) in 1929 to 129.9 billions of rubles in 1935. The share of the gross output of the machine-building industry in total output of large-scale industry increased from 6.8 per cent in 1913 and 11.8 per cent in 1929 to 25.3 per cent in 1935—and this branch of industry plays a decisive role in the reconstruction of all branches of national economy. The number of tractors in agriculture increased from 34.9 thousand as of October 10, 1929 to 380 thousand as of January 1, 1935, and so on.

The Socialist transformation of the entire national economy, the growth of industrialization and technical reconstruction brought about a vast increase in productive forces in the U. S. S. R. To illustrate, the following figures may be cited: the average annual number of wage-earners and salaried employees rose from 12.2 millions in 1929 to 24.8 millions in 1935; the national income for the same period increased from 28.9 billions of rubles to 65.7 billions of rubles (in fixed prices of 1926-27); gross output of large-scale industry increased from 10.3 billions of rubles in 1913 and 19.9 billions of rubles in 1929 to 58.8 billions of rubles in 1935, and so on.

The progress of Socialist reconstruction of the U. S. S. R. has been accompanied by a tremendous improvement in the material and cultural welfare of the broad masses. Side by side with the liquidation of unemployment, in 1930, there has been a steady and continuous increase in wages. The average annual earnings of wage-earners and salaried employees in all branches of national economy rose from 800 rubles in 1929 to 2,269 rubles in 1935. The retail trade turnover, reflecting the increase in available commodities and in the purchasing power of the population, rose from 16.9 billions of rubles in 1929 to 73.7 billions of rubles in 1935. The number of pupils in elementary and secondary schools increased from 13.5 millions in 1929 to 25.5 millions in 1935; the number of students in universities and engineering colleges increased from 166.8 thousands in 1929 to 515.9 thousands, as at January 1, 1936, and in technicums (technical institutes) from 284 thousand to 698 thousand.

The year 1935 merits special attention.

In May 1935 Stalin summed up the accomplishments of Socialist construction and outlined its further course, declaring: "We put an end to the famine in technical resources and created an extensive base in every branch of activity for the equipment of our people with first class technique . . . . In order to set technique going and to utilize it to the full, we need people who have mastered technique". In place of the old slogan, "technique decides everything", he advanced a new slogan: "Cadres decide everything".

The call of the people's leader met with enthusiastic response in the form of redoubled creative effort, the workers bringing forward from among their ranks Alexei Stakhanov, Buysigin, Maria Demchenko, Krivonos—hundreds and thousands of outstanding workers who are inaugurating new methods of work, establishing Socialist organization of labor and creating a Socialist attitude toward labor. This Socialist concept of labor grows stronger and assumes wider proportions day by day.

Beginning in the second half of 1935, the Stakhanov movement has grown apace and at once gave evidence of fruitful results. It was precisely the application of the new slogan, "cadres decide everything", that aroused that enthusiasm which has made possible the overfulfillment of plans in all basic branches of national economy.

This year, in accordance with the new tasks formulated by Stalin, the metallurgical workers have attained the desired coordination in output of pig iron and steel: output of steel exceeds that of pig iron.

Railroad transport made tremendous strides in 1935. Overcoming its former backwardness, this most important branch of activity now holds a place of honor among the leading branches of national economy.

Socialist agriculture made great advances in 1935, notably in the development of livestock-breeding.

The year 1935 also marks far-reaching accomplishment in the spheres of general culture, public health, housing and municipal services.

Finally, this year, for the first time in a number of years, the U. S. S. R. has achieved a favorable active balance of payments.

The present volume does not by any means attempt to give a complete picture of Socialist construction in the Soviet Union. Despite its size and scope, the book sets forth only the most important facts and presents only a brief characterization of certain aspects of the varied and all-embracing Socialist reconstruction of the U. S. S. R.

Central Administration of
Economic and Social Statistics of the
State Planning Commission of the U. S. S. R.

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GENERAL INDICES

1.—Socialist Construction

Principal Indices of Socialist Construction in the U. S. S. R.

Principal Indices of Socialist Construction in the U. S. S. R.

Table 1

Indices	In terms of:	1913	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8
I. General Indices									
National income	Billions of rubles in prices of 1926-27	21.0	28.9	35.0	40.9	45.5	48.5	55.8	65.7
Share of industry in total national income	Per cent of total	25.5	37.9	42.2	42.6	45.3	47.4	50.0	52.1
Share of large-scale industry in total gross output of industry and agriculture, in prices of 1926-27.	"	40.6	54.5	61.6	66.7	70.7	70.8	73.2	74.9
Share of socialized economy in total national income.	"	—	56.0	74.3	90.0	93.0	94.6	96.0	97.8
Share of socialized industry in total gross output of industry	"	—	89.5	94.4	—	99.5	99.55	99.66	99.71
Share of socialized agriculture in total gross output of agriculture	"	—	7.0	28.9	62.8	74.7	79.5	86.4	93.6
Fixed capital in socialist sector of national economy (annual average)	Millions of rubles in prices of 1933	—	52,645	59,903	71,870	85,222	98,284	112,072	129,948
II. Industry									
Fixed capital of large-scale industry (as at end of year) [1])	Millions of rubles	—	11,389	14,199	17,376	22,615	28,995	35,391	—
Including: Production of means of production	Per cent of total	—	59.9	63.4	67.4	71.6	74.7	76.3	—
Production of consumers' goods	"	—	40.1	36.4	32.6	28.4	25.3	23.7	—
Gross output of large-scale industry (exclusive of lumber industry, timber flotage, fisheries and railway repair shops ("Census" industry)	Millions of rubles in prices of 1926-27	10,251	19,923	25,837	32,263	36,878	39,934	48,200	58,800
Including: Production of means of production	Per cent of total	40.7	45.0	49.0	52.1	53.8	55.0	57.4	59
Production of consumers' goods	"	59.3	55.0	51.0	47.9	46.2	45.0	42.6	41
Average annual output per worker, in prices of 1926-27 (Industrial Commissariats)	Per cent of previous year	—	112.9	109.7	107.6	102.6	108.7	110.7	116,4
Gross output of the metal-working industry	Millions of rubles in prices of 1926-27	1,131[2])	3,054	4,969	7,551	9,408	10,822	13,611	17,594
Including: Machine-building industry and repair plants	"	697[2])	2,347	3,772	6,230	7,616	9,030	11,442	—
Share of machine-building industry in gross output of large-scale industry	Per cent of total	6.8	11.8	14.6	19.3	20.7	22.6	23.7	25.3

Capacity of electric generating stations (as at end of year)	Thousands of kw	1,098	2,296	2,876	3,972	4,677	5,583	6,287	6,880
Including: District stations	Per cent of total	16.1	40.9	49.3	59.8	64.6	66.4	65,9	66.0
Output of electric energy	Millions of kw-hours	1,945	6,224	8,368	10,687	13,540	16,357	21,016	25,900
Including: Energy produced by district stations	Per cent of total	22.2	44.8	54.3	60.6	68.1	70.3	72,7	75.3
Output of coal	Thousands of tons	29,117	40,067[3]	47.780[4]	56,752	64,664	76,205	93,940	109,000
„ „ crude petroleum and natural gas	„	9.234	13,810[3]	18,923	23.162	22,319	22,458	25,612	26,795
„ „ pig iron	„	4.216	4,021[3]	4,964[4]	4,871	6,161	7,110	10,428	12,489
„ „ steel ingots and castings	„	4,231	4,854[3]	5,761[4]	5,620	5,927	6,889	9,693	12,600
„ „ rolled steel	„	3,506	3.898[3]	4,503[4]	4,159	4,288	4.882	6,734	8,995
„ „ copper (smelter products)	„	31.1	35.5[3]	44 5[4]	44.3	45.0	44.3	53.3	76.0
Production of tractors	Units	—	3,281[3]	9,097[4]	38,105	50,640	78,138	94,452	113,566
Production of automobiles (exclusive of automobiles assembled from imported parts)	„	—	1,390[3]	3,375[4]	4,005	23,879	49,724	72.472	96,620
III. Agriculture									
Fixed assets of socialized agricultural enterprises (inclusive of dwelling houses and other assets of non-industrial purport, as at end of year, but exclusive of depreciation)	Millions of rubles in prices of 1926-27	—	2,491.2	5,996.6	11,472.9	12,657.8	14,324.3	16,298.9	18,557.1
Including: State Farms and Cooperative Farms	„	—	566.0	1,457.5	2,891.7	3,767.1	4,475.5	5,167.4	5,813.3
Area sown by State Farms	Thousands of hectares	—	2,273.8	3,926.2	10,958.3	13,447.5	14,138.8	15,109.7	16,192.5
Per cent of peasant farmsteads collectivized, as at July 1	Per cent	—	3.9	23.6	52.7	61.5	64.4	71.4	89.4[5]
Number of Machine-Tractor Stations (MTS), as at June 1	Units	—	—	158	1,228	2,115	2,660	3,326	4,128
Sown area of Collective Farms served by Machine-Tractor Stations, in per cent of total area sown by Collective Farms	Per cent of total	—	—	27.4	37.1	49.3	58.7	63.9	72.4

---

1) Depreciation of fixed capital is not accounted for.
2) Exclusive of railway repair shops.
3) 1928-29.
4) 1929-30.
5) As at April 1, 1936.

Table 1 (Continued)

Indices	In terms of:	1913	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8
Number and aggregate horse-power of tractors (as at end of year) [1]									
a) Number	Units	—	34,943[2])	72,078	125,344	148,480	210,900	276,427	380,019
b) Aggregate horse-power	Thousands h. p.	—	391.4[2])	1,003.5	1,850 0	2,225.0	3,209.2	4,462.8	6,527.0
Gross agricultural production (inclusive of **increment estimated** on unfinished production of field **crops, cattle-breeding** and livestock, carried over **from previous year)**	Millions of rubles in prices of 1926-27	12,607.1	14,744.6	14,007.6	13,943.7	13,071.8	14,016.6	14,591.0	16,097,2
Total sown area	Millions of hectares	105.0	118.0	127.2	136.3	134.4	129.7	131.5	132.8
Including: Area sown to:									
Cereals	"	94.4	96.0	101.8	104.4	99.7	101.5	104.7	103.4
Of which: Wheat	"	31.6	29.8	33.8	36.9	34.5	33.2	35.3	37.1
Industrial crops	Thousands of hectares	—	8,799.8	10,465.7	14,039.3	14,877.2	11,981.0	10,724.8	10,641.8
Of which: Sugar beet (for refineries)	"	648.7	770.7	1,035.8	1,394.1	1,537.8	1,210.7	1,183.3	1,225.1
Cotton	"	688.0	1,055.5	1,582.6	2,137.3	2,172.0	2,051.6	1,940.6	1,953.5
Flax, long fiber	"	1,015.3	1,630.6	1,749.1	2,390.9	2,510.0	2,394.6	2,109.8	2,106.7
Feed and fodder crops	"	—	4,983.1	6,506.9	8,780.7	10,631.6	7.321.0	7,143.4	8,608.7
Yield of:									
a) Cereals	Centners per hectare	8.5	7.5	8.5	6.7	7 0	8.8	8.5	8.7
b) Sugar beet	"	168.0	81.1	135.3	86.4	64.3	74.2	96.0	132.3
c) Flax (fiber)	"	3 3	2.2	2.5	2.3	2.0	2.3	2.5	2.6
Gross production of cereals	Millions of centners	801.0	717.4	835.4	694.8	698.7	898.0	894.0	901.0
Number of livestock (as at July 1):									
a) **Horses**	Millions of head	35.8[3])	34.6	30.2	26.2	19.6	16.6	15.6	15.9
b) **Cattle**	"	60.6[3])	67.1	52.5	47.9	40.7	38.4	42.4	49.3
c) **Hogs**	"	20.9[3])	20.4	13.6	14.4	11.6	12.1	17.4	22.6
d) **Sheep** and goats	"	121.2[3])	147.0	108.8	77.7	52.1	50.2	51.9	61.1
IV. Transport and Communications									
Fixed capital of transport and communications **system** (annual average)	Millions of rubles in prices of 1933	—	16,315	17,361	18,747	20,560	22,687	25,175	28,585
Railway revenue, ton-km	Millions of ton-km (tariff)	91,089	145,087	185,876	214,222	253,420	244,639	277,167	336,002
Revenue freight carried by railways	Thousands of tons	132,400	187,626	238,732	258,283	267,906	268,075	317,075	388,533

Passengers carried on railways	Thousands of passengers	184,800	365,239	557,704	723,681	967,053	927,028	945,206	919,121
Operating length of railways (annual average)	Kilometers	58,549	77,010	77,073	80,248	81,564	82,080	83,247	83,818
Freight carried by river transport (People's Commissariat of Water Transport)	Thousands of tons	—	23,143.6	36,504.9	44,668.9	46,937.9	44,717.0	52,683.4	64,707.7
Passengers carried by river transport (People's Commissariat of Water Transport)	Thousands of passengers	—	20,697.1	32,058.0	34,428.2	43,631.1	41,584.2	41,238.8	41,459.6
Operating length of navigable rivers	Thousands of km	—	74.0	75.0	76.0	77.6	82.2	81.2	83.8
Freight carried by sea (on all ships)	Thousands of tons	33,069	23,513	34,946	36,903	34,349	33,102	38,752	40,638
Including: Ships of the Soviet Mercantile Fleet ("Sovtorgflot")	"	—	8,839	12,278	14,627	14,820	15,868	22,185	25,355
Length of air lines (exclusive of overlapping sections)	Kilometers	—	15,426	26,316	27,716	31,934	34,761	42,440	45,609
Length of interurban telegraph and telephone lines (as at end of year)	Thousands of km	502.5	955.0	1.071.4	1,322.4	1,509.3	1,632.9	1,347.5	2,024.9
V. Capital Investments									
Capital investments in socialist sector of national economy	Millions of rubles in prices of respective year	—	5,885	9,786	15,681	20,086	18,432 4)	23,832 4)	24,015
Including: Industry (inclusive of district generating stations)	"	—	2,615	4,115	7,407	10,431	8,863	10,624	—
Agriculture (inclusive of the labor and own resources of Collective Farm members)	"	—	840	2,590	3,645	3,820	3,900	4,661	—
Transport and communications (including industrial enterprises)	"	—	1,329	1,903	3,058	3,878	3,598	5,073	—
Municipal utilities (inclusive of electric generating stations)	"	—	300	315	336	465	562	1,222	—
Education 5)	"	—	221	241	239	250	234	355	—
Health protection, pensions and relief 5)	"	—	116	128	141	148	173	324	—

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1) Exclusive of tractors scrapped, excepting those for the year 1935.

2) As at October 1.

3) 1916.

4) In addition, expenditures for special purposes amounted to 1,275 millions of rubles in 1933 and 1,696 millions of rubles in 1934.

5) Exclusive of capital investments of Industrial Commissariats in education and health protection.

Table 1 (Continued)

Indices	In terms of:	1913	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8
VI. Labor									
Average annual number of wage-earners and employees in all branches of national economy[1]) . . .	Thousands	—	12,167.9	14,530.9	18,989.5	22,942.8	22,325.3	23,681.2	24,769.9
Including: Large-scale industry (inclusive of number on pay-roll in Producers' Cooperatives)	„	—	3,365.9	4,263.8	5.483.3	6,481.3	6.229.4	6,530.7	7,065.5
Transport	„	—	1.302.2	1,499.2	1.927.2	2,222.0	2.304.9	2,555.6	2,921.8
Building construction	„	—	917.8	1,623.4	2,548.9	3,125.8	2,361.1	2,618.1	2,203.9
State Farms and Machine-Tractor Stations	„	—	416.4	795.0	1,601.1	2,370.7	2,603.1	2,959.5	2,837.3
Total annual pay-roll disbursements to wage-earners and salaried employees in national economy as a whole	Millions of rubles	—	9.735.2	13,597.2	21,394.8	32.737.7	34,952.7	44,000.0	56,200.0
Including: Large-scale industry (inclusive of number on pay-roll in Producers' Cooperatives)	„	—	3,222.4	4,413.0	6,494 3	9,547.9	10,350.9	12,586.8	16,779.5
Transport	„	—	1,209.6	1,594.8	2,305.2	3,347.3	3,852.7	4,993.0	6,980.6
Building construction	„	—	940.9	1,756.1	3,168.7	4,715.9	3,873.9	5,345.2	5,503.5
State Farms and Machine-Tractor Stations	„	—	166.3	483.1	1.258.8	2,000.5	2,636.3	3,533.2	4,374.3
Average annual wages and salaries in all national economy	Rubles	—	800	936	1,127	1,427	1.566	1,858	2,269
Including: Large-scale industry (inclusive of number on pay-roll in Producers' Cooperatives)	„	—	957	1.035	1,184	1,473	1,662	1.927	2,375
Transport	„	—	929	1,064	1,196	1.506	1,672	1,954	2,389
Building construction	„	—	1,025	1,082	1,243	1.509	1,641	2,042	2,497
State Farms and Machine-Tractor Stations	„	—	399	608	786	844	1,013	1,194	1,542
VII. Trade Turnover									
Retail trade turnover									
State trade	Millions of rubles in prices of respective year	—	3,197.7	4,282.5	6.547.2	12.995.4	22,162.9	32,311.4	45,421.8
Cooperative trade	„	—	11,396.0	13.300.0	18.178.0	22,508.9	21,239.7	22,460.6	28,300.9

Private trade	„	—	2,273.4	1,043.0	—	—	—	—	—
Total	„	—	16,867.1	18,625.5	24,725.2	35,504.3	43,402.6	54,772.0	73,722.7
Including: Cities	„	—	11,499.1	11,996.3	16,447.0	23,387.8	29,448.2	39,348.8	52,240.2
Rural localities	„	-	5,368.0	6,629.2	8,278.2	12,116.5	13,954.4	15,423.2	21,482.5
Turnover in the public catering system	„	—	550.0	1.290.0	2,740.0	4,852.3	6,386.6	7.042.7	6,920.9
VIII. Education									
Number of students in Universities and Engineering Colleges (as at beginning of year)	Thousands	124.7[2]	166.8	191.1	272.1	394.0	469.8	416.9	515.9[6]
Number of students in Technicums (as at beginning of year)	„	48.0[2]	284.0	327.1	593.7	754.1	797.0	601.6	698.1[6]
Number of students in Workers' Faculties (as at beginning of year)	„	—	56.5	68.2	231.9	319.5	352.7	271.4	276.0[6]
Number of students in elementary and secondary shools (as at beginning of year)	„	7,800,6[2]	13,503.7	17.656.2	20,846.2	21.813.5	22,003.6	23,555.8	25,515.1
IX. Health Protection									
Number of hospital beds, total[3]	„	175.6	no data	no data	no data	410.2	no data	477.6	no data
In cities	„	89.2	„	„	„	230.0	„	261.1	„
In rural localities	„	49.4	„	„	„	107.0	„	122.5	„
In railway hospitals	„	[7]	„	„	„	18.8	„	22.1	„
Number of doctors (as at end of year)	„	19.8	„	„	„	77.9	„	85,9	„
X. Finance									
State budget of the U.S.S.R.	Millions of rubles								
Receipts, total	„	—	6,654.1[4]	11,230 3[5]	20,341.9	30,573.5	40,153.1	50,759.6	—
Expenditures, total	„	—	6,670.4[4]	10,765.6[5]	20,332.8	30.283.0	35,666.6	48.306,6	—
Including: National economy	„	—	3,436 5[4]	6,031.9[5]	15,327.7	23,161.3	25,113.9	30,233.2	—
Allocations for social and cultural purposes	„	—	416.1[4]	740.3[5]	1,290.7	1,718.7	2,334.5	3,240,9	—
XI. Foreign Trade									
Exports	„	1,520.1	923.7	1,036.4	811.2	574.9	494.9	418.3	367.4
Imports	„	1,375.0	889.6	1,058.8	1,105.0	704.0	348.2	232.4	241.4

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[1] Figures for 1928-1930 are exclusive of lumbermen using own horses; data for subsequent years include same.
[2] School year 1914-15.
[3] Exclusive of beds for mental cases, beds in health resorts and sanatoria, as well as reserve beds.
[4] 1928-29.
[5] 1929-30.
[6] As at January 1, 1936.
[7] Included in figures for cities and rural localities.

Fixed Capital
Industrialization
Technical Reconstruction
Socialization
Growth of Productive Forces
Territorial Distribution of Industry
National Income

1. FIXED CAPITAL

Table 1

Fixed Capital of Socialized Enterprises

(In millions of rubles, as of 1933 prices)

Branches of National Economy	Fixed capital (annual average)					Growth of fixed capital (per cent of previous year)			
	1930	1932	1933	1934	1935	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9
Total	59,903	85,222	98,284	112,072	129,948	118.6	115.3	114.0	116.0
Including:									
1. Industry	15,266	25,542	31,847	38,028	44,573	127.6	124.7	119.4	117.2
2. Agriculture [1]	4,077	11,367	13,460	15,270	17,608	145.9	118.4	113.4	115.3
Inclusive of:									
a) State Farms	699	2,700	3,467	4,055	—	175.7	128.4	117.0	—
b) Machine-Tractor Stations (MTS)	71	825	1,323	1,868	—	238.4	160.4	141.2	—
3. Transport and communications system	17,361	20,560	22,687	25,175	28,585	109.7	110.3	111.0	113.5
4. Trade and supply	903	1,281	1,544	1,998	2,645	119.2	120.5	129.4	132.4
5. Education, public health, municipal services and housing	22,296	26,472	28,746	31,601	36,537	109.2	108.6	109.9	115.6

2. INDUSTRIALIZATION

Table 1

Share of Industrial and Agricultural Production

(Per cent of total)

	1913	1929	1930	1931	1932	1934	1935
A	1	2	3	4	5	6	7
Total production	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1. Large-scale industry [2]	40.6	54.5	61.6	66.7	70.7	73.2	74.9
2. Agriculture [3]	59.4	45.5	38.4	33.3	29.3	26.8	25.1

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[1] Exclusive of livestock.

[2] Exclusive of the lumber industry and fisheries.

[3] Inclusive of the lumber industry, hunting and fishing.

Changes in Structure of Large-Scale) ("Census" Industry

Table 2

	Gross output (in millions of rubles, in prices of 1926-27)															
	1913	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
***All* industry**[1]	**10,251**	**2,004**	**2,619**	**4,005**	**4,660**	**7,739**	**11,083**	**12,679**	**15,818**	**19,923**	**25,837**	**32,263**	**36,878**	**39,934**	**48,200**	**58,800**
Per cent of total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Including: Production of means of production	4,177	876	1,173	1,925	2,109	3.356	4,865	5,570	6,807	8,966	12,664	16,815	19,852	21,960	27,666	34,700
Per cent of total . . .	40.7	43.7	44.8	48.1	45.3	43.4	43.9	43.9	43.0	45.0	49.0	52.1	53.8	55.0	57.4	59.0
Including: Production of consumers' goods	6,074	1,128	1,446	2,080	2,551	4,383	6 218	7,109	9,011	10,957	13.173	15,448	17.026	17,974	20,534	24,100
Per cent of total	59.3	56.3	55.2	51.9	54.7	56.6	56.1	56.1	57.0	55.0	51.0	47.9	46.2	45.0	42.6	41.0

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[1] Large-scale industry exclusive of the lumber industry, timber flotage, fisheries and railroad repair shops.

Table 3

Changes in Distribution of Population

(Per cent of total)

	As at Jan. 1, 1914	As at March 15, 1923	As at Dec. 17, 1926	As at January 1					
				1928	1929	1930	1931	1932	1933
A	1	2	3	4	5	6	7	8	9
Total population	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Urban population	17.7	15.0	17.9	17.4	17.9	18.7	20.1	22.2	24.0

Table 4

State Budget Allocations for National Economy

(In millions of rubles)

	1929-30	1931	1932	1933	1934
A	1	2	3	4	5
Total national economy	6,031.9	15,327.7	23,161.3	25,113.9	30,233.2
Including: Industry [1]	2,274.7	7,780.3	12,576.9	13,049.0	12,645.7

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[1] Exclusive of the food industry.

3. TECHNICAL RECONSTRUCTION

Table 1

Construction of Machinery

	1913	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
Gross output of machinery (in millions of rubles, in prices of 1926-27)[1] . .	697[2]	2,347	3,772	6,230	7,616	9,030	11,442	—
Per cent of machine-building to total gross output of large-scale industry .	6.8	11.8	14.6	19.3	20.7	22.6	23.7	25.3

Table 2

Capacity of Electric Generating Stations and Output of Electric Energy

Indices	In terms of:	1913	1916	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Capacity of Electric Generating Stations																	
Total	Thous. kw	1,098	1,192	1,247	1,279	1,308	1,397	1,586	1,698	1,905	2,296	2,876	3,972	4,677	5,583	6,287	6,880
Including: District stations	„	177	245	277	287	307	367	456	525	626	938	1,419	2,376	3,020	3,708	4,146	4,540
Per cent of electric energy generated by district stations to total capacity	Per cent	16.1	20.6	22.2	22.4	23.5	26.3	28.7	30.9	32.8	40.9	49.3	59.8	64.6	66.4	65.9	66.0
Output of Electric Energy																	
Total	Millions kw-hrs	1,945	2,575	775	1,146	1,562	2,925	3,508	4,205	5,007	6,224	8,368	10,687	13,540	16,357	21,016	25,900
Including: District stations	„	431	729	475	630	702	935	1,190	1,543	2,001	2,786	4,541	6,474	9,217	11,499	15,274	19,500
Per cent of electric energy output of district stations to total output	Per cent	22.2	28.3	61.3	55.9	44.9	32.0	33.9	36.7	40.0	44.8	54.3	60.6	68.1	70.3	72.7	75.3

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[1] Including repair plants.
[2] Exclusive of railway repair shops.

Principal Indices of Power Supply in Industry

Table 3

(Enterprises of Industrial Commissariats)

Indices	1926	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8
All Industry								
1. Total power supply per worker[1]	1.18	1.30	1.42	1.48	1.59	1.67	1.86	2.19
2. Electric power supply per worker[2]	0.58	0.69	0.82	0.95	1.07	1.16	1.37	1.63
3. Coefficient of electrification of industrial processes[3]	45.8	49.9	56·3	62.4	65.5	67.3	69.9	71.6
4. Coefficient of centralization of electric energy supply[4]	32.4	38.6	45.5	54.5	61.0	65.9	69.6	72.7
I. Production of Means of Production								
1. Total power supply per worker[1]	1,46	1.58	1.70	1.76	1.87	1.96	2.21	2.70
2. Electric power supply per worker[2]	0.80	0.91	1.06	1.18	1.29	1.41	1.65	2.03
3. Coefficient of electrification of industrial processes[3]	54.8	57.4	62,8	67.4	67.6	70.3	72.6	74.0
4. Coefficient of centralization of electric energy supply[4]	30.7	36.0	43,3	52.8	59.9	64.7	68.7	72.1
II. Production of Consumers' Goods								
1. Total power supply per worker[1]	0.85	0.97	1.03	1.03	1.07	1.09	1.11	1.15
2. Electric power supply per worker[2]	0.32	0.43	0.51	0.57	0.67	0.69	0.76	0.80
3. Coefficient of electrification of industrial processes[3]	32.2	38.4	44.9	50,9	56,1	58.6	61.2	62.3
4. Coefficient of centralization of electric energy supply[4]	36.7	45.1	51.2	59.3	65.0	70.3	73.4	75.6

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[1] Electric and mechanical power per man-hour actual work (in kw-hrs).

[2] Electric power per man-hour actual work (in kw-hrs).

[3] Ratio of electric energy consumption for industrial purposes (motive power and process uses) to total consumption of power (mechanical and electric) for the same purposes.

[4] Per cent of purchased electric energy to total input of electric energy (generated by plants, plus purchased power).

Table 4

Technical-Economic Indices of Electric Generating Stations

	1930	1931	1932	1933	1934
A	1	2	3	4	5
1. Per cent of electric energy generated at hydro-electric stations and stations utilizing local fuel to total electric energy output of district stations	79.5	75.0	70.2	76.8	79.0
2. Per cent of stations over 100,000 kw-capacity to total capacity of district electric stations	—	—	46.6	50.2	49.8
3. Average capacity per turbo-generator installed at district electric stations (in thousands of kw)	6.6	8.5	8.9	11.1	11.7
4. Consumption of conventional fuel (7,000 cal.) per kw-hour energy produced (district electric stations)	0.86	0.80	0.77	0.72	0.68
5. Use factor of rated capacity of district electric stations (in hour expression)	3,400	3,700	3,470	3,627	3, 874

Table 5

Reconstruction of the Coal Mining Industry

	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
1. Coefficient of electrification of industrial processes[1]	61.6	71.4	72.8	74.3	76.9	82.1	83.9
2. Coefficient of centralization of electric energy supply[1]	32.1	70.4	90.8	88.3	88.1	89.4	90.6
3. Total power supply per worker[1]	1.28	1.24	1.30	1.33	1.34	1.44	1.73
4. Electric power supply per worker[1]	0.79	0.88	0.96	1.00	1.04	1.20	1.47
5. Per cent of mechanized coal mining	—	—	—	59.6	62.6	67.6	71.2
6. Including: Coal mined with heavy duty cutting machines	—	—	—	—	40.8	40.9	41.1
7. Per cent of mechanized coal loading[2]	—	—	—	-	72.8	74.9	76.0
8. Per cent of mechanized coal haulage[3]	—	-	—	—	19.6	36.9	40.5
9. Per cent of mines with more than 500,000 ton annual output to total coal mined	—	—	—	—	11.3	15.1	21.0
10. Number of heavy duty cutting machines (as at end of year)	549	761	1,007	1,278	1,473	1,679	1,754
11. Number of light duty cutting machines (as at end of year)	268	393	409	322	339	294	327
12. Number of chipping hammers (as at end of year)	71	1,274	3,322	6,190	9,020	10,764	12,931

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[1] See footnotes to Table 3, page 16.
[2] From coal face to main drive.
[3] From main drive to cage.

Table 6

Reconstruction of the Petroleum Industry

(Crude petroleum production)

	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
1. Coefficient of electrification of industrial processes [1]	73.1	79.9	83.8	81.0	79.5	82.2	84.6
2. Total power supply per worker [1]	4.98	5.76	6.54	7.26	8.45	9.06	9.51
3. Electric power supply per worker [1]	3.68	4.64	5.49	5.88	6.74	7.52	8.07
4. Per cent of extraction by compressors, and deep pumping to total oil extraction	51.8 [2]	50.6 [3]	49.8	55.8	73.4	66 6	71.9
5. Per cent of rotary drilling to total drilling	70.7 [2]	78.8 [3]	85.4	88.8	94.1	97.3	98.4
6. Speed of drilling (monthly average per operating machine, in meters)	56.5 [2]	72.3 [3]	89.0	90.9	108 1	118.5	157.4

Table 7

Reconstruction of the Peat Industry

	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
1. Coefficient of electrification of industrial processes [4]	68.0	70.8	80.6	65.5	71.1	69.5	75.0
2. Total power supply per worker [4]	0.53	0.58	0.70	0.78	0.83	0.86	0.89
3. Electric power supply per worker [4]	0.38	0.42	0.56	0.53	0.62	0.64	0.71
4. Per cent. of peat extracted by the hydro-peat method; [5] hydro-elevator method, mechanical excavator and milling-cutter methods, to total output of peat [6]	18.1	16.4	25.7	39.1	46.2	40.8	43 8

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[1] See footnotes to Table 3, page 16; [2] 1927-28; [3] 1928 29; [4] See footnotes to Table 3, page 16; [5] By this method a powerful jet of water is directed against the peat, thus softening it and ultimately converting it into an easily removable hydrated mass. [6] The hydraulic-elevator method was introduced in 1930, the milling-cutter method in 1928 and the mechanical excavator method in 1932.

Table 8

Reconstruction of the Ferrous Metals Industry

	1928	. 1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
1. Coefficient of electrification of industrial processes [1]	0 0	41.4	46.4	44.2	44.6	47.1	51.3	—
2. Coefficient of centralization of electric energy supply [1]	9.7	8.2	12.0	20.9	39.8	51.3	62.2	—
3. Total power supply per worker [1]	3.33	3 54	4.41	5.21	5 26	5.33	7.35	—
4. Electric power supply per worker [1]	1.33	1.53	2.07	2 28	2 47	2.60	3.85	—
5. Number of blast furnaces	69[2]	—	—	—	—	103[3]	108[3]	112[3]
6. Total useful volume of blast furnaces (in cubic meters)	20,030.0[2]	—	—	—	—	36,913.0[3]	42,217.0[3]	48,.390[3]
7. Average useful volume per furnace (in cubic meters)	290.3[2]	—	—	—	—	358.4[3]	390.9[3]	432 0[3]
8. Coefficient of utilization of useful volume of coke blast furnaces	—	—	—	—	1.69	1.69	1.31	1.20
9. Per cent of pig iron smelted in fully mechanized blast furnaces	—	—	—	—	25.6	32.3	46.6	52.9
10. Number o open-hearth furnaces	222 [2]	—	—	—	—	296 [3]	322[3]	337[3]
11. Total hearth area (in sq. meters)	4,799[2]	—	—	—	—	.6,701[2]	7,869[3]	8,613.[3]
12. Average hearth area per furnace (in sq. meters)	22[2]	—		—	—	23[3]	24[3]	26[3]

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[1] See footnotes to Table 3, page 16.

[2] As at October 1.

[3] As at January 1

Table 9

Number of Tractors in Agriculture

(Inclusive of depreciation)

	Oct. 1, 1928	Oct. 1, 1929	Oct. 1, 1930	Jan. 1, 1931	Jan. 1, 1932	Jan. 1, 1933	Jan. 1, 1934	Jan. 1, 1935	Jan. 1, 1936[1]
A	1	2	3	4	5	6	7	8	9
Total number of tractors (units)	26,733	34.943	66,332	72,078	125.344	148,480	210,900	276,427	380,019
Including:									
State Farm sector	6,719	9,678	24,953	27.685	51,535	63,957	83,160	95,535	112,602
Machine-Tractor Stations . .	—	2.387	20,801	31,174	63.274	74,761	123,156	177,305	263,830
Aggregate horse power of tractors (thous. h. p.)	278.1	391.4	926.0	1,003 5	1,850.0	2,225.0	3,209.2	4,462.8	6.527.0
Including:									
State Farm sector	77.6	123.4	445.5	483.1	892.0	1,043.0	1,401.7	1,669.5	2,041.3
Machine-Tractor Stations . .	—	23.9	257.1	372.5	848.0	1,077.0	1,758.1	2,753.9	4,446.3

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[1] Preliminary data. Inclusive of tractors scrapped in 1935.

Table 10

Number of Combines (Combined Harvesters and Th[illegible]shers) and Motor Vehicles on State Farms and at Machine-Tractor Stations

(As at end of respective year)

Description	1930	1932	1933	1934	1935
A	1	2	3	4	5
State Farms of the People's Commissariat of State Farms					
Combines (thous. units)	1.7	11.9	13.4	15.4	19.5
Motor trucks (thous. units)	2.1	6.2	10.3	11.3	13.4
Machine-Tractor Stations					
Combines (thous. units)	7 (units)	2.2	10.4	15.2	29.9
Motor trucks (thous. units)	0.2	6.0	12.3	19.5	29.7
Passenger cars (units)	17	245	2,434	4,641	5,594

Table 11

Reconstruction of Railway Rolling Stock

(As at end of year)

	1930	1932	1934	1935
A	1	2	3	4
Per cent of heavy type freight cars . . .	6.9	8.3	10.5	12.1
Per cent of cars equipped with automatic brakes	5.6	10.6	26.0	32.6
Per cent of cars equipped with section brake coupling pipes	6.8	24.7	65.6	65.4

Table 12

Length of Electrified Railway Sections and Sections Equipped with Automatic Block Signalling

(In kilometers)

	As at Jan 1, 1932	As at Jan. 1, 1933	As at Jan. 1, 1934	As at Jan. 1, 1935	As at Jan. 1, 1936[1]
A	1	2	3	4	5
1. Length of Electrified Sections					
In single-track expression	127	242	524	—	—
Operating length	64	153	350	379	907
2. Length of Sections Equipped with Automatic Block Signals					
In single-track expression	215	1,090	2,448	—	—
Operating length	132	582	1,552	2,078	3,717

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[1] Preliminary data.

4. SOCIALIZATION

Table 1

Share of Socialized Sector of National Economy in Total National Income

(Per cent of total, in prices of 1926-27)

1928	1929	1930	1931	1932	1933	1934	1935
1	2	3	4	5	6	7	8
44.0	56.0	74.3	90.0	93.0	94.6	96.0	97.8

Table 2

Ratio of Socialized to Private Sector in Total Gross Output of Industry

(Per cent of total, in fixed prices of 1926-27)

	1929	1930	1932	1933	1934	1935
A	1	2	3	4	5	6
Socialized industry	89.5	94.4	99.5	99.55	99.66	99.71
Private industry	10.5	5.6	0.5	0.45	0.34	0.29
Total	100.0	100.0	100.0	100.0	100.0	100.0

Table 3

t io of Socialized Agriculture to Total Gross Output of Agriculture

(Per cent of total, in prices of 1926-27)

	1928	1929	1930	1931	1932	1934	1935
A	1	2	3	4	5	6	7
Total agriculture	3.0	7.0	28.9	62.8	74.7	86.4	93.6
Including:							
Grain crops	3.9	7.1	35.7	66.8	77.7	89.5	—
Industrial crops	7.3	9.6	38.7	69.8	79.0	89.0	—
Livestock-breeding	1.9	3.4	18.2	52.2	62.4	79.1	—

Table 4

State Farm Development

Indices	In terms of:	1928	1929	1930	1931	1932	1934	1935[1]
A	B	1	2	3	4	5	6	7
Area sown by State Farms	Thousands of hectares	1,735.0	2,273,8	3,926.2	10,958.3	13,447.5	15,109.7	16,192.5
Per cent of total sown area by all sectors of agriculture	Per cent	1.5	1.9	3.1	8.0	10.0	11.5	12.2
Number of wage-earners and employees, as at July 1	Thousands	599.0	659.2	1,088.4[2]	2,055.5[2]	2,793.5[2]	3,351.2	3,146.1
Fixed assets of State Farms, as at January 1 (inclusive of Cooperative Farms)	Millions of rubles in prices of 1926-27	300.0	377.2	566.0	1,457.5	2,891.7	4,475.5	5,167.4

Table 5

Collectivization of Peasant Farmsteads and Sown Area, as at Spring of Respective Year

Per cent of Collectivization	1928	1929	1930	1931	1932	1934	1935
A	1	2	3	4	5	6	7
Per cent of peasant farmsteads collectivized	1.7	3.9	23.6	52.7	61.5	71.4	89.4[3]
Per cent of sown area collectivized .	2.3	4.9	33.6	67.8	77.6	87.4	94.1

Table 6

Collective Farms Served by Machine-Tractor Stations, as at Spring of Respective Year

	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6
Sown area of Collective Farms served by Machine-Tractor Stations, in per cent of total area sown by Collective Farms . .	27.4	37.1	49.3	58.7	63.9	72.4

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[1] Preliminary data.
[2] As at August 1.
[3] As at April 1, 1936.

5. GROWTH OF PRODUCTIVE FORCES

Table 1

Average Annual Number of Wage-Earners and Salaried Employees: By Branches of National Economy

(In thousands)

Branches of National Economy	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
All national economy [1]	**11,599.0**	**12,167.9**	**14,530.9**	**18,989 5**	**22,942.8**	**22,325.3**	**23,681.2**	**24,769.9**
Including:								
I. Large-scale industry	3,096.0	3,365.9	4,263.8	5,483.3	6.481.3	6,229.4	6,530.7	7,065.5
II. Building construction	723.0	917.8	1,623.4	2.548.9	3.125.8	2,361.1	2,618.1	2,203.9
III. Transport	1,270.0	1,302.2	1.499.2	1,927.2	2.222.0	2.304.9	2.555.6	2,921.8
1. Railway transport	971.0	984.0	1,084.0	1.320.2	1,526 5	1,473.7	1,603.2	1,788.6
2. Water transport	104.0	111.0	132.0	177.0	195.5	188.9	222.3	246.3
3. Other transport	195 0	207.2	283.2	430.0	500.0	642 3	730.1	886.9
IV. Agriculture	1,676.0	1,575.6	1.552 0	2,059.7	2,857.5	2,818.7	3,093.6	2,973.9
Including:								
State Farms and Machine-Tractor Stations	345.4	416.4	795.0	1,601.1	2,370.4	2.603.1	2,959.5	2,837.3

Table 2

Average Annual Output per Worker [2]

(In prices of 1926-27)

	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7
Per cent of preceding year	112.9	109.7	107.6	102.6	108.7	110 7	116.4
Per cent of 1928	112.9	123.9	133.3	136.7	148 6	164.5	191.1

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[1] Data for 1928-1930 are exclusive of lumber workers using own horses; data for subsequent years include same.

[2] Data for enterprises of Industrial Commissariats. The productivity of labor for the lumber industry, timber flotage, meat industry, fisheries and dairy industry is not accounted for.

Table 3

Rate of Growth of Large-Scale Industry

(Per cent of previous year)

	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
All industry [1]	**130.7**	**152.9**	**116.4**	**166.1**	**143.2**	**114.4**	**124.8**	**125.9**	**129.7**	**124.9**	**114.3**	**108.3**	**120.7**	**122.0**
Including:														
1. Production of means of production	133.9	164.1	109.6	159.1	145.0	114.5	122.2	131.7	141.2	132.8	118.1	110.6	126.0	125.5
2. Production of consumers' goods	128.2	143.8	122.6	171.8	141.9	114.3	126.8	121.6	120.2	117.3	110.2	105.6	114.2	117.0

Table 4

Rate of Growth of Large-Scale Industry

(Per cent of 1913)

	1913	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
All industry [1]	**100.0**	**25.5**	**39.1**	**45.5**	**75.5**	**108.1**	**123.7**	**154.3**	**194.4**	**252.0**	**314.7**	**359.8**	**389.6**	**470.2**	**573.6**
Including:															
1. Production of means of production	100.0	28.1	46.1	50.5	80.3	116.5	133.3	163.0	214.7	303.2	402.6	475.3	525.7	662.3	831.3
2. Production of consumers' goods	100.0	23.8	34.2	42.0	72.2	102.4	117.0	148.4	180.4	216.9	254.3	280.3	295.9	338.1	396.4

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[1] Exclusive of the lumber industry, timber flotage, fisheries and railroad repair shops.

Table 5

Freight and Passengers Carried by Railway

	In terms of:	1913	1920	1928	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8	9	10
A. Freight Carried											
1. Revenue traffic											
Dispatched	Thousands of tons	132,400	40 259	156,237	187,626	238,732	258,283	267,906	268,075	317,075	388,533
Total run	Millions of ton-km	65,696	14,354	93,389	112,950	133,918	152,129	169,270	169,485	205,746	258,066
B. Revenue Passengers Carried											
1. All trains											
Outgoing passengers	Thousands	184,800	—	291,118	335,239	557,704	723,681	967,053	927,028	945,206	919.121
Total run	Millions of passenger-km	25,215	—	24,484	32,004	51,777	61,813	83,748	75,154	71,421	67,936

Table 6

Growth of Civil Aviation in the U. S. S. R.

(Exclusive of "Deruluft" and local lines)

Indices.	In terms of:	1928	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8
I. Transport Aviation									
1. Length of airway lines[1]	Kilometers	9,326	15,426	26,316	27,716	31,934	34,761	42,440	45,609
2. Aircraft kilometrage flown	Thousands of airplane-km	1,726	2,751	3.962	5,241	5,413	9,304	17,864	26,721

Table 7

Capital Investments in Socialist Sector of National Economy

(Millions of rubles, in prices of respective year)

Branches of National Economy	1928	1929	1930	1931	1932	1934
A	1	2	3	4	5	6
Total national economy	4.083	5,885	9,786	15,681	20.086	23,832[2]
Including:						
I. Industry (inclusive of district electric stations)	1,880	2,615	4,115	7,407	10,431	10.624
II. Agriculture (inclusive of own resources and labor of Collective Farm members)	379	840	2,590	3,645	3.820	4,661
III. Transport and communications (inclusive of industrial enterprises)	958	1,329	1,903	3,058	3,878	5.073

Table 8

Number of Students in Universities, Engineering Colleges, Technical Schools ("Technicums") and Workers' Faculties

(In thousands, as at beginning of respective year)

Type of Educational Institution	1914—1915	1928	1929	1930	1932	1936
A	1	2	3	4	5	6
1. Universities and Engineering Colleges	124.7	159.8	166.8	191.1	394.0	515.9
2. *Technicums*	48.0	253.6	284.0	327.1	754.1	698.1
3. Workers' *Faculties*	—	49.2	56.5	68.2	319.5	276.0

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[1] Excluding overlapping sections.

[2] In addition, expenditures for special purposes amounted to 1,696 millions of rubles.

6. TERRITORIAL DISTRIBUTION OF INDUSTRY

able 1

Output of Coal

(In thousands of tons)

	1913	1924-25	1925 26	1926-27	1927-28	1928-29	1929 30	1930-31	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
Total	29,117	16,520	25.770	32,275	35,510	40.067	47.780	56,752	64,664	76.205	93,940	109,000
Including: Ural, West Siberian and Kazakhstan coalfields	2,081	2.255	3,368	4.474	4.644	5,149	6,040	8,726	11,243	14,589	18,923	23,190
Per cent of total	7.1	13.6	13.1	13.9	13.0	12.9	12.6	15.4	17.4	19.1	20.1	21.2

Table 2

Output of Pig Iron in the Southern, Eastern and Central Regions of the U S.S.R.

(In thousands of tons)

Year	Total	Southern District		Eastern District		Central District	
		Absolute figures	Per cent of total	Absolute figures	Per cent of total	Absolute figures	Per cent of total
A	1	2	3	4	5	6	7
1913	4,216.1	3,104.9	73.6	901.7	21.5	209.5	4.9
1927-28	3.282.3	2,391.1	72.8	702.5	21.4	188.7	5.8
1932	6.161 1	4,299.9	69.8	1,501.6	24.3	359.6	5.9
1933	7,109 8	4,672.2	65.7	2,012,0	28 3	425.6	6.0
1934	10,428.3	6.717.7	64.4	3.234.3	31.0	476.3	4.6
1935	12,488.9	8,088.3	64 7	3,655 2	29.2	745.4	6.1

Table 3

Output of Steel in the Southern, Eastern and Central Regions of the U.S.S.R.

(In thousands of tons)

Year	Total	Southern District		Eastern District		Central District	
		Absolute figures	Per cent of total	Absolute figures	Per cent of total	Absolute figures	Per cent of total
A	1	2	3	4	5	6	7
1913	4.231.0	2.712.6	64.1	906.6	21.4	611.8	14.5
1927-28	4,250.9	2.510.3	59.1	953.5	22.4	787.1	18.5
1932	5.927.1	3.573 3	60.3	1.111.5	18.7	1,242.3	21.0
1933	6,889.1	3.848.5	55.9	1.517.3	22.0	1,523.3	22.1
1934	9,693.2	5,256.8	54.2	2.490.9	25.7	1,945.5	20.1
1935	12,600.0	6,767.5	53.7	3,470.7	27.5	2,361.8	18.8

Table 1

National Income of the U. S. S. R.

(Billions of rubles, in prices of 1926-27)

	1930	1931	1932	1933	1934	1935	Per cent of total					
							1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
1. All industry	14.8	17.4	20.6	23.0	27.9	34.2	42.2	42.6	45.3	47.4	50.0	52.1
2. Agriculture	8.7	8.6	8.4	9.2	9.4	10.5	24.9	21.0	18.4	18.9	16.8	16.0
3. Building construction	3.8	6.2	6.2	5.6	6.7	7.3	10.9	15.2	13.6	11.5	12.0	11.1
4. Transport	2.0	2.1	2.5	2.6	3.0	3.8	5.7	5.1	5.5	5.5	5.4	5.8
5. Trade	4.2	5.1	6.0	6.0	6.7	—	12.0	12.5	13.2	12.4	12.0	—
6. Public catering system	0.2	0.3	0.8	1.0	1.1	—	0.6	0.7	1.8	2.1	1.9	—
7. Other branches of national economy	1.3	1.2	1.0	1.1	1.0	—	3.7	2.9	2.2	2.2	1.9	—
Total	**35.0**	**40.9**	**45.5**	**48.5**	**55.8**	**65.7**	**100**	**100**	**100**	**100**	**100**	**100**

Area and Population

Rivers

Forest Resources

Area and Population of the U. S. S. R. [1]

Republics, Regions and Territories	Principal city	Area (in thousands of sq. km)	Population as at Jan. 1, 1933 (in thousands)
A	B	1	2
U. S. S. R.	Moscow	21,153.6	165,748.4
I. R. S. F. S. R.	Moscow	19,638.6	113,650.9
1. Northern Territory	Archangel	1,124.7	2,731.6
Including:			
Nenetz National District	Narian-Mar	214.5	16.7
Komi-Zyrian Autonomous Region	Syktyvkar	374.9	276.3
Pechora Region	Ust-Usa (village)	179.2	47.9
2. Karelian A.S.S.R.	Petrozavodsk	146.8	372.1
3. Leningrad Region	Leningrad	318.4	6,641.5
Including:			
Murmansk District	Murmansk	128.5	112.8
Pskov Region	Pskov	16.4	506,0
Kinghissepp Region	Kinghissepp	6.8	127.4
4. Western Region	Smolensk	114.2	5,256.1
5. Kalinin Region	Kalinin	106.4	3,364.6
Including:			
Veliki-Luki Region	Veliki-Luki	24.7	820.1
6. Moscow Region	Moscow	121.7	11,016.0
7. Ivanovo Industrial Region	Ivanovo	63.4	2,428.0
8. Yaroslavl Region	Yaroslavl	60.9	2,097.5
9. Gorky Territory	Gorky [2]	130.4	5,031.6
Including:			
Chuvash A.S.S.R.	Cheboksary	17.9	958.5
Maris Autonomous Region	Ioshkar-Ola	23.3	550.9
10. Kirov Territory	Kirov [3]	144.3	3,317.0
Including:			
Udmurt A.S.S.R.	Izhevsk	32.1	871.4
11. Bashkir A.S.S.R.	Ufa	140.5	2,889.9
12. Tatar A.S.S.R.	Kazan	67.1	2,784.9
13. Sverdlovsk Region	Sverdlovsk [4]	343.7	4,201.3
Including:			
Komi-Perm National District	Kadymkar [5]	23.1	198.0
14. Cheliabinsk Region	Cheliabinsk	172.6	2,630.4
Including:			
Magnitogorsk Region	Magnitogorsk	15.0	232.0
15. Kuibyshev Territory	Kuibyshev [6]	149.5	6,064.4
Including:			
Mordovian A.S.S.R.	Saransk	25.5	1,414.6
16. Orenburg Region	Orenburg	123.8	1,610.7
17. Kursk Region	Kursk	76.7	5,268.1
18. Voronezh Region	Voronezh	116.9	6,918.0
19. Saratov Territory	Saratov	117.8	2,908.0
Including:			
Volga German A.S.S.R.	Engels [7]	28.2	575.7
20. Stalingrad Territory	Stalingrad [8]	209.6	2,582.9
Including:			
Kalmuk Autonomous Region	Elista	74.2	185.4
21. Azov-Black Sea Territory	Rostov-on-Don	182.2	5,955.9
Including:			
Northern Don District	Millerovo	36.1	646.6
Adygei Autonomous Region	Maikop	3.0	137.4
22. Northern Caucasus Territory	Ordjonikidze [10]	169.7	3,922.7
Including:			
Daghestan A.S.S.R.	Makhach-Kala	57.3	949.2
Kabardino-Balkar Autonomous Region	Nalchik	12.3	278.8

Table 1 (Continued)

Republics, Regions and Territories	Principal city	Area (in thousands of sq. km)	Population as at Jan. 1, 1933 (in thousands)
A	B	1	2
Karachay Autonomous Region	Mikoyan-Shakhar	9.9	104.4
Northern Ossetia Autonomous Region	Ordjonikidze 9)	6.2	286.2
Cherkess Autonomous Region	Sulimov 10)	3.3	80.7
Chechen-Ingush Autonomous Region	Grozny	15.7	650.5
23. Crimean A. S. S. R.	Simferopol	26.0	791.0
24. Kazakhstan A. S. S. R.	Alma-Ata	2,744.5	6,796.6 11)
Including:			
1) Aktiubinsk Region	Aktiubinsk	580.0	1,060.8
2) Alma-Ata Region	Alma-Ata	403.1	1,153.5
3) Eastern Kazakhstan Region	Semipalatinsk	302 8	1,332.6
4) Western Kazakhstan Region	Uralsk	371.5	722.8
Including:			
Guriev District	Guriev	129.0	186.9
5) Karaganda Region	Petropavlovsk	351.8	1,193.3
6) Southern Kazakhstan Region	Chimkent	489.5	1,243.2
7) Karkaralinsk District	Karkaralinsk	245.8	74.3
25. Kara-Kalpak A. S. S. R.	Turtkul	198.0	373.5
26. Kirghiz A. S. S. R.	Frunze	196.7	1,302.1
27. Omsk Region	Omsk	1,446.8	2,192.4
Including:			
Tara District	Tara	71.9	248.4
Ostiak-Vogul National District	Ostiak-Vogulsk 5)	754.9	102.2
Yamal (Nenetz) National District	Salehard 5)	466.0	29.5
Tobolsk Region	Tobolsk	98.0	170.6
28. West Siberian Territory	Novosibirsk 12)	905.3	6,140.8
Including:			
Narym District	Kolpashev 5)	305.7	128.8
Oirot Autonomous Region	Oirot-Tura	93.1	121.7
29. Krasnoyarsk Territory	Krasnoyarsk	2,143.8	1,690.4
Including:			
Taimur (Dolgan-Nenetz) National District	Dudinka 13)	742.6	8.0
Evenkis National District	Turinsk 14)	541.6	4.9
Khakass Autonomous Region	Abakan	49.9	173.3
30. East Siberian Territory	Irkutsk	1,791.1	2,183.3
Including:			
Buriat-Mongolian A. S. S. R.	Ulan-Ude	376.4	620.9
Vitim-Olekmin (Evenkis) National District	Kalakan 5)	219.8	10.1
31. Yakut A. S. S. R.	Yakutsk	3,030.9	327.5
32. Far Eastern Territory	Khabarovsk	2,954.2	1,860.1
Including:			
1) Amur Region	Blagoveshchensk	213.8	423.3
2) Zey Region	Rukhlovo	175.6	116 4
3) Kamchatka Region	Petropavlovsk-on-Kamchatka	1,153.8	58.3
Including:			
Koriak National District	Penzhinsk 14)	310.8	12.5
Chukotka National District	Anadyr 5)	660.6	19.1
4) Lower Amur Region	Nikolayevsk-on-Amur	549.6	87.7
5) Maritime Zone	Vladivostok	96.7	415.3
6) Sakhalin Region	Alexandrovsk-on-Sakhalin	40.7	70.0
7) Ussuri Region	Voroshilov	53 1	375.0
8) Khabarovsk Region	Khabarovsk	227.7	264.1
9) Jewish Autonomous Region	Biro-Bidjan 5)	36.8	50.0

Table 1 (Continued)

Republics, Regions and Territories	Principal city	Area (in thousands of sq. km)	Population as at Jan. 1, 1933 (in thousands)
A	B	1	2
II. Ukrainian S. S. R.	Kiev	443.1	31,901.4
Including:			
1. Vinnitsa Region	Vinnitsa	47.9	4,803.5
Including:			
Moghilev-Podolsk Region	Moghilev-Podolsk	3.4	367.9
Kamenets-Podolsk Region	Kamenets-Podolsk	4.7	542.8
Proskurov Region	Proskurov	4.7	566.0
Shepetovka Region	Shepetovka	6.5	530.5
2. Dniepropetrovsk Region	Dniepropetrovsk	73.2	3,872.6
3. Donetz Region	Stalino 15)	52.3	4,074.5
Including:			
Starobelsk District	Starobelsk	14.5	531.1
4. Kiev Region	Kiev	74.8	6,127.7
Including:			
Korosten Region	Korosten	10.6	461.0
Novgorod-Volinsk Region	Novgorod-Volinsk	4.6	311.7
Zhitomir Region	Zhitomir	5.7	449.5
5. Odessa Region	Odessa	68.9	3,324.9
6. Kharkov Region	Kharkov	74.9	6,117.4
7. Chernigov Region	Chernigov	42.7	2,965.3
8. Moldavian A.S.S.R.	Tiraspol	8.4	615.5
III. White Russian S. S. R.	Minsk	126.8	5,439.4
Including:			
Lepel Region	Lepel	5.6	209.2
Mozir Region	Mozir	16.0	391.5
Polotzk Region	Polotzk	7.3	242.6
Slutzk Region	Slutzk	7.2	289.0
IV. Transcaucasian S. F. S. R.	Tbilissi (Tiflis)	185.6	7,110.8
1. Azerbaidjan S. S. R.	Baku	86.0	2,891.0
Including:			
Nakhichevan A.S.S.R.	Nakhichevan	5.4	117.0
Nagorno-Karabakh Autonomous Region	Stepanakert	4.2	153.9
2. Armenian S.S.R.	Erevan	30.0	1,109 2
3. Georgian S.S.R.	Tbilissi (Tiflis)	69.6	3,110.6
Including:			
Abkhasian A.S.S.R.	Sukhumi	8.7	259.1
Adjaristan A.S.S.R.	Batumi	2.8	153.8
Southern Ossetia Autonomous Region	Stalinir 16)	3.7	95.3
V. Uzbek S. S. R.	Tashkent	172.0	5,044.3
Including:			
Khoresm District	Novo-Urgench	4.6	353.9
Surhindarinsk Region	Termez	20.5	263.3
Kashkadarinsk Region	Bek-Budi	20.2	366.2
VI. Turkmenian S. S. R.	Ashkhabad	443.6	1,268.9
Including:			
Kerki District	Kerki	44.7	104.2
Tashauz District	Tashauz	45.5	200.4
VII. Tadjik S. S. R.	Stalinabad 17)	143.9	1,332.7
Including:			
Gorno-Badaskhan Autonomous Region	Horog	61.1	35.7

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1) Administrative divisions as at Jan. 1, 1936. 2) Formerly Nizhni-Novgorod. 3) Formerly Viatka. 4) Formerly Ekaterinburg. 5) Workers' Settlement. 6) Formerly Samara. 7) Formerly Pokrovsk. 8) Formerly Tzaritzin. 9) Formerly Vladikavkaz. 10) Formerly Batalpashinsk. 11) Data referring to population of the separate regions of the Kazakhstan A. S. S. R. as at Jan. 1, 1931. 12) Formerly Novo-Nikolayevsk. 13) Rural community. 14) "Culture base": Station or center which organizes and directs various cultural activities. 15) Formerly Yusovo. 16) Formerly Zhinvali. 17) Formerly Dushambe.

Table 2

Length of Principal Rivers of the U. S. S. R.

(Rivers over 1,000 km in length)

Name of River	Length of river (in kilometers)	River flows into:	European or Asiatic U.S.S.R.
A	1	2	3
1. Lena	4,428	Laptev Sea	Asiatic
2. Volga	3,694	Caspian Sea	European
3. Yenissei	3,619	Kara Sea	Asiatic
4. Irtysh	3,502	Ob River	„
5. Ob	3,295	Kara Sea	„
6. Amur	2,946	Tatar Strait	„
7. Syr-Daria	2,684	Aral Sea	„
8. Lower Tunguska	2,661	Yenissei River	„
9. Viliuy	2,510	Lena River	„
10. Ural	2,443	Caspian Sea	European
11. Amur-Daria	2,351	Aral Sea	Asiatic
12. Dnieper	2,283	Black Sea	European
13. Aldan	2,235	Lena River	Asiatic
14. Olenek	2,019	Laptev Sea	„
15. Kama	2,009	Volga River	European
16. Don	1,984	Sea of Azov	„
17. Ishim	1,945	Irtysh River	Asiatic
18. Pechora	1,814	Barenz Sea	European
19. Upper Tunguska	1,807	Yenissei River	Asiatic
20. Vitim	1,770	Lena River	„
21. Kolyma	1,585	East Siberian Sea	„
22. Oka	1,520	Volga River	European
23. Podkamennaya Tunguska	1,437	Yenissei River	Asiatic
24. Indigirka	1,433	East Siberian Sea	„
25. Chulim	1,396	Ob River	„
26. Belaya	1,373	Kama River	European
27. Kura	1,302	Caspian Sea	„
28. Viatka	1,248	Kama River	„
29. Olekma	1,191	Lena River	Asiatic
30. Desna	1,179	Dnieper River	European
31. Tobol	1,179	Irtysh River	Asiatic
32. Zeya	1,165	Amur River	„
33. Amga	1,143	Aldan River	„
34. Ili	1,139	Balkhash Lake	„
35. Vychegda	1,131	Northern Dvina River	European
36. Omolon	1,091	Kolyma River	Asiatic
37. Yana	1,084	Laptev Sea	„
38. Northern Donetz	1,056	Don River	European
39. Maya	1,052	Aldan River	Asiatic
40. Western Dvina	1,003	Baltic Sea (Gulf of Riga)	European

Table 3

Canals and Sluice-Equipped River Sections

Waterways	Length (kilometers)
A	1
1. Moscow River	195
a) Mouth of Moscow River to Dorogomilov Bridge	191
b) Moscow Diversion Canal	4
2. Oka River	101
a) Kuzminsk Sluice to Beloomut	44
b) Beloomut to Mouth of Moscow River	57
3. Tesa River	
a) Tesa System	89
4. Mariinsk System	874
a) Old Ladoga Canals	163
b) New Ladoga Canals	169
c) Onega Canal	67
d) Heavily sluiced part of system	134
e) Belo-Ozersky Canal	67
f) Sheksna River: a) from source to Sudbitsk Sluice	136
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13. White Sea-Baltic "Stalin" Canal	227
14. Dnieper River to Dnieper Dam	97
Total	2,667

Forest Resources of the U.S.S.R., as at January 1, 1935 [1]

(In thousands of hectares)

Republics, Regions and Territories	Total forest area	Including standing timber	Per cent of forest area [2]	Per cent of standing timber to total [3]
A	1	2	3	4
U. S. S. R.	**918,362.7**	**583,934.7**	**27.6**	**100.0**
I. **R. S. F. S. R.**	893,152.7	563,615.8	28 7	96.5
1. Northern Territory	74 349.0	51,248.5	45.6	8.8
2. Karelian A.S.S.R.	13 937.9	8.295.9	56.5	1.4
3. Leningrad Region	21,653.7	9,809 9	30.8	1.7
4. Western Region	3,797.0	2.678.7	23.5	0.5
5. Kalinin Region	2,281.6	1,551.0	14.6	0.3
6. Moscow Region	4,238.7	3,305.7	27.1	0.6
7. Ivanovo Region	5,427.0	3,892.4	31.3	0.7
8. Gorky Territory	6,783.0	5,365.6	41.1	0.9
9. Kirov Territory	6,533.4	5,377.8	37.3	0.9
10. Kursk Region	1,488.3	1,243.1	6.4	0.2
11. Voronezh Region				
12. Sverdlovsk Region	26,788.2	19,072.6	58.2	3.3
13. Cheliabinsk Region	4.083.1	3.179.3	18.6	0.5
14. Omsk Region	52,721.6	16,559.1	10.8	2.8
15. Bashkir A.S.S.R.	5,633.6	4,815.7	33.2	0.8
16. Tatar A.S.S.R.	1,231.3	1,052.3	15.6	0.2
17. Kuibyshev Territory	3.604.4	2,876.1	11.8	0.5
18. Orenburg Region				
19. Stalingrad Territory	1,234.7	909.6	2.7	0.2
20. Saratov Territory				
21. Azov Black Sea Territory	2.356.0	1.991.7	10.9	0.3
22. Northern Caucasus Territory	1,188.1	954.0	5.5	0.2
23. Crimean A.S.S.R.	228.2	186.4	7.2	0.0
24. Kazakhstan A.S.S.R.	26,432.1	18,494.1	6.5	3.2
25. Kara-Kalpak A.S.S.R.	10,046.2	7,004.5	55.7	1.2
26. Kirghiz A.S S.R.	2,353.6	954.2	4.9	0.2
27. West Siberian Territory	54,987.3	30,455.0	37.1	5.2
28. Krasnoyarsk Territory	158,210 3	77,382.3	33.1	13.2
29. East Siberian Territory	117,280.5	71,196.2	39.7	12.1
30. Yakut A.S.S.R.	179,108.0	144,714.8	47.7	24.7
31. Far Eastern Territory	105,175.9	69,049.3	23.4	11.9
II. **Ukrainian S. S. R.**	3,845.4	2,715.3	6.1	0.5
III. **White Russian S. S. R.**	3,817.0	2,908.4	22.9	0.5
IV. **Transcaucasian S. F. S. R.**	3,873 8	3,221.3	17.4	0.6
V. **Turkmenian S. S. R.**	9,941.3	9,501.5	21.4	1.6
VI. **Tadjik S. S. R.**	2,176.7	1,020.7	7.1	0.2
VII. **Uzbek S. S. R.**	1,555.8	951.7	5.5	0.1

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[1] Preliminary data. Total forest area and standing timber include areas to be uprooted (28,761,000 hectares of total forest area).

[2] Ratio of forest area (standing timber) to total area in each Republic, Region or Territory.

[3] Share of standing timber in each Republic, Region or Territory to total standing timber in the U.S.S.R.

I. INDUSTRY

1. Summary Tables
2. Metal-Working Industry
3. Electric Generating Stations
4. Coal Industry
5. Petroleum Industry
6. Peat Industry
7. Ferrous Metallurgy
8. Chemical Industry
9. Rubber and Asbestos Industry
10. Production of Building Materials
11. Timber Industry
12. Paper Industry
13. Textile Industry
14. Leather, Fur, Boot and Shoe Industry
15. Food Industry

1. SUMMARY TABLES

Table 1

Output of Large-Scale Industry

Year	Gross output (in millions of rubles, in prices of 1926-27)			Rate of growth in output (per cent of previous year)		
	Total	Group "A"	Group "B"	Total	Group "A"	Group "B"
A	1	2	3	4	5	6
Large-Scale Industry: Returns for industries statistically listed from 1913 ¹)						
1900	4,650	1,948	2,702	—	—	—
1913	10,251	4,177	6,074	—	—	—
1920	1,410	665	745	—	—	—
1921	2,004	876	1,128	142.1	131.7	151.4
1922	2,619	1,173	1,446	130.7	133 9	128.2
1923	4,005	1,925	2,080	152.9	164.1	143.8
1924	4,660	2,109	2,551	116.4	109.6	122.6
1925	7,739	3,356	4,383	166.1	159.1	171.8
1926	11,083	4,865	6,218	143.2	145.0	141.9
1927	12,679	5,570	7,109	114.4	114.5	114.3
1928	15,818	6,807	9,011	124.8	122.2	126.8
1929	19,923	8,966	10,957	125.9	131.7	121.6
1930	25,837	12,664	13,173	129.7	141.2	120.2
1931	32,263	16,815	15,448	124.9	132.8	117.3
1932	36,878	19,852	17,026	114.3	118.1	110.2
1933	39,934	21,960	17,974	108.3	110.6	105.6
1934	48,200	27,666	20,534	120.7	126.0	114.2
1935 ²)	58,800	34,700	24,100	122	125.5	117
All Large-Scale Industry ¹)						
1928	16,860	7,727	9,133	—	—	—
1929	21,204	10,098	11,106	125.8	130.7	121.6
1930	27,699	14,293	13,406	130.6	141.5	120.7
1931	34,159	18,479	15,680	123.3	129 3	117.0
1932	38,831	21,551	17,280	113.7	116.6	110.2
1933	42,041	23,743	18,298	108.3	110.2	105.9
1934	50,568	29,619	20,949	120.3	124.7	114.5
1935 ²)	61,600	37,000	24,600	122	125	117

¹) Large-scale industry includes all enterprises (irrespective of the People's Commissariat or other organization to which the given enterprise may belong) employing 16 or more workers and equipped with mechanical motive power, or 30 workers if not so equipped. Specialized "censuses" have been adopted for a number of industries (see footnotes to Table 2, page 47).

For purposes of comparison with 1900 and 1913, the data for large-scale industry are given exclusive of the lumber industry, fisheries and railroad repair shops (in the "census" industries), as these branches were not incorporated in the industrial statistics of pre-revolutionary Russia.

²) Preliminary data.

Table 2

Summary of Large-Scale Industry, as of 1934 1)

Branches of Industry	Number of enterprises	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery (thousands of kw)	Average annual number of wage-earners (thousands)	Gross output, in prices of 1926-27 (thousands of rubles)
A	1	2	3	4	5
All large-scale industry	45,584	35,391	8,285.7	7,404	50,568
Group "A"	26,622	26,993	6,789.3	5,073	29,619
Group "B"	18,962	8,398	1,496.4	2,331	20,949
I. Electric generating stations 2)	2,606	3,497.8	—	76.7	1,125
II. Fuel extraction	1,327	3,092.9	1,189.6	565.4	1,795
1. Coal mining	783	1,422.3	613.4	422.8	989
2. Crude petroleum production	36	1,291.0	364.6	26.5	589
3. Peat extraction	504	355.2	208.4	114.7	214
4. Combustible shales	4	24.4	3.2	1.4	3
III. Ore mining	143	780.0	201.7	131.2	403
1. Iron ore	33	241.4	81.3	38.8	140
2. Manganese ore	4	33.1	7.8	9.4	25
3. Other ore	106	505.5	112.6	83.0	238
IV. Non-metallic minerals (raw materials for the chemical industry)	96	189.0	39.6	22.4	97
1. Phosphate rock (including apatite)	23	67.8	16.5	7.0	32
2. Potassium salts	1	47.6	11.7	2.9	14
3. Salts	41	31.9	7.7	7.1	30
4. Other raw materials for the chemical industry	31	41.7	3.7	5.4	21
V. Non-metallic minerals (raw material for building construction and for the china, glass and pottery industry) 3)	1,146	212.4	47.6	101.4	283
VI. Other non-metallic minerals 3)	25	41.3	15.4	10.8	53
VII. Lumber industry (including timber flotage)	4,692	602.6	34.7	974.5	1,658
VIII. Fuel preparation	68	1,059.7	172.2	43.1	1,476
1. Coke industry	31	590.7	90.7	27.8	375
2. Petroleum refining	31	429.5	78.6	13.9	1,085
3. Illuminating gas and chemically treated fuel	6	39.5	2.9	1.4	16
IX. Chemical industry	946	2,026.0	396.2	162.7	1,980
1. Basic chemicals 4)	95	834.8	206.2	42.9	461
2. Synthetic organic chemicals 5)	58	892 9	157.2	65.3	942

Branches of Industry	Number of enterprises	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery (thousands of kw)	Average annual number of wage-earners (thousands)	Gross output, in prices of 1926-27 (thousands of rubles)
A	1	2	3	4	5
3. Drugs, medicines and compounds	80	72.1	7.9	10.4	131
4. Photographic chemicals	15	22.6	2.3	2.4	61
5. Processing of timber and other vegetable products	574	143.4	13.4	34.0	184
6. Paints and varnishes	120	60.2	9.2	7.7	201
X. Stone, clay and glass products	3,103	1,639.8	343.7	316.1	1,172
A. Mineral building materials	2,792	1,332.3	304.6	218.9	679
1. Cement industry	41	293.4	115.4	25.7	128
2. Other binding materials	474	73.8	11.0	24.5	65
3. Refractory and acid-proof products	110	256.4	41.9	32.4	122
4. Brick industry[6]	1,828	569.3	110.0	111.6	212
5. Other wall and facing materials	240	74.2	14.4	16.9	81
6. Clay and asbestos-cement pipes	14	23.7	2.8	2.1	11
7. Roofing materials	85	41.5	9.1	5.7	60
B. Glass industry[7]	220	228.1	27.9	70.7	346
1. Window glass and mirrors	47	114 6	10.2	19.6	126
2. Glass for technical purposes	41	40.6	7.5	12.5	87
3. Glass for household and other uses.	132	72.9	10.2	38.6	133
C. China and pottery industry	91	79.4	11.2	26.5	147
1. China for technical purposes	20	29.2	3.8	8.7	81
2. China for household and other uses	20	47.8	7.2	16.5	63
3. Pottery (exclusive of clay pipes)	51	2.4	0.2	1.3	3
XI. Ferrous metallurgy[8]	78	3,219.5	1,501.9	310.5	2,240
XII. Non-ferrous metallurgy	43	603.2	193.7	42.7	425
1. Copper smelting and refining	12	147.2	48.3	13.4	114
2. Aluminum smelting and refining	3	180.0	71.6	5.0	35
3. Zinc and lead smelting and refining	7	144.5	27.3	8.1	59
4. Smelting and refining of other non-ferrous metals	5	15.9	3.2	2.0	13
5. Non-ferrous metals (rolled products)	15	107.7	42.4	13.8	183
6. Smelting and refining of rare metals	1	7.9	0.9	0.4	21
XIII. Metal-working industries	8,390	8,346.7	2,056.8	1,896.9	13,611
A. Machine-building industry (including repair plants)	6,675	7,361.6	1,807.5	1,615.0	11,442
Machine building industry (excluding repair plants)	1,319	5,646.3	1,432.0	991.8	9,449
1. Power equipment	63	754.5	234.7	123.8	1,536
Boiler equipment	18	34.9	8.3	6.6	69
Prime movers	20	450.1	151.1	69.9	686
Electric power equipment	25	269.5	75.3	47.3	781

Table 2 (Continued)

Branches of Industry	Number of enterprises	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery (thousands)	Average annual number of wage-earners (thousands)	Gross output, in prices of 1926-27 (thousands of rubles)
A	1	2	3	4	5
2. Hoisting and handling equipment	37	81.2	17.8	17.5	180
3. Pumps and compressors	29	49.1	10.7	9.2	120
4. Control and measuring instruments	72	77.7	12.0	22.3	265
5. Industrial machinery	214	912.0	236.4	143.2	1,084
Metal-cutting and metal-pressing machinery	48	118.4	23.3	22.2	173
Equipment for the mining, metallurgical and chemical industry	42	537.3	160.9	63.3	452
Textile, knitting, sewing and bootmaking machinery	22	70.8	14.0	16.8	122
Equipment for the food industry	44	91.6	20.9	22.0	161
Other industrial machinery	58	93.9	17.3	18.9	176
6. Construction and road-building machinery	22	74.0	19.2	15.4	97
7. Agricultural equipment and implements	93	732 2	199.8	116.3	1,194
Agricultural machinery	32	286.0	67 6	56.3	373
Tractors	3	364.7	115.6	42.3	676
Spare parts for tractors	58	81.5	16.6	17.7	145
8. Transport equipment	397	1,763.9	443 9	309.3	2,835
Locomotives and cars	14	516.8	167.4	99.4	759
Motor vehicles	5	387.4	89.5	38.8	810
Shipbuilding	135	380.1	103.8	74.2	609
Other transport equipment	243	479.6	83.2	96 9	657
9. Equipment for communications system (telegraph, telephone, radio)	51	81.6	12.0	25.6	272
10. Equipment for the home, for educational and general purposes and services	83	140.3	21.4	33.0	331
Measuring and optical instruments	41	63.5	8.6	15.8	147
Individual radio-receiving sets	7	21.0	2.5	4.1	85
Medical appliances and surgical instruments	20	6.8	1.2	2.5	37
Other equipment for the home, for cultural and municipal services	15	49.0	9.1	10.6	62
11. Various other equipment	258	979.8	224.1	176.2	1,535
B. Production of metal wares	1,656	926.5	225.3	265.7	2,062
1. Tools and instruments	269	201.8	42.5	53.3	361
Tools and measuring instruments for the metal-working and the woodworking industry	65	121.8	25.3	25.1	197
Other industrial tools and implements	172	67.4	14.2	22.1	129
Medical instruments	32	12.6	3.0	6.1	35
2. Type founding	3	3.5	0.4	0.4	5
3. Fastening and joining elements (bolts, nuts, rivets, wire, rails, etc.)	127	93.3	32.0	21.4	194
4. Structural shapes	207	121.2	24.6	32.2	185
5. Cable making	7	46.6	14.3	6.4	154
6. Electric lamps and other electrical appliances	34	26.1	5.6	8.4	185
7. Other metal wares	1,009	434.0	105.9	143.6	978

Table 2 (Continued)

Branches of Industry	Number of enterprises	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery (thousands of kw)	Average annual number of wage-earners (thousands)	Gross output, in prices of 1926-27 (thousands of rubles)
A	1	2	3	4	5
C. Structural steel members and welding work	59	58.6	24.0	16.2	107
D. General repair plants and shops	5,356	1,715.3	375.5	623.2	1,993
1. Industrial equipment repair plants	291	110.6	31.1	29.9	197
2. Locomotive and car repair plants	72	344.6	114.1	115.4	499
3. District railroad repair shops	827	377.1	78.6	216.9	296
4. Ship repair plants	208	142.6	30.7	52 8	174
5. Motor vehicle repair plants	361	119.7	17.3	29.2	176
6. Agricultural machinery and tractor repair plants	2,744	345.6	66 2	119.2	349
7. Other repair plants and shops	853	275.1	37.5	59.8	302
XIV. Abrasive materials, mica and graphite products (exclusive of pencils)	49	64.7	10.6	6.1	78
1. Abrasive materials	38	36 8	5.6	4.1	57
2. Mica and graphite products	11	27.9	5.0	2.0	21
XV. Rubber and asbestos industries	30	236.8	52.7	48.7	801
1. Rubber industry	25	228.7	51.0	47.1	772
2. Asbestos industry	5	8.1	1.7	1.6	29
XVI. Woodworking industry	4,120	893.5	302.9	367.4	1,935
1. Sawmills and plywood industry	1,311	558.5	204 6	193.9	1,021
Sawmills	1,271	497.2	192.0	175.9	936
Plywood industry	40	61.3	12.6	18.0	85
3. Standard houses and structural parts	237	64.3	27 3	20.1	164
4. Furniture making	666	93.9	28.1	41.5	313
5. Matches	22	47.0	7.8	16.8	59
6. Other woodwork	1,884	129.8	35.1	95.1	378
XVII. Paper industry 9)	101	391.2	209 6	45.3	335
XVIII. Printing and publishing 10)	956	231.9	36.0	84.2	471
XIX. Textile industry	2,916	2,832.3	592.4	876.2	6,683
1. Textile fiber dressing and preparing	837	347.8	53.6	75.7	770
Cotton ginning	93	109.8	19.2	14.3	531
Flax and hemp dressing	691	168.7	25.8	39.8	75
Wool washing	11	9.9	1.5	2.2	81
Silk reeling	32	27.4	1.6	15.1	47
Production of cottonized fiber	10	32 0	5.5	4.3	36
2. Cotton goods	503	1,640.9	389.5	464.0	3,496
Including:					
Production of cotton fabrics for packing and processing purposes	13	23.7	4.9	8.1	90
3. Linen goods	61	215.1	45.9	66.7	250
Including:					
Production of linen fabrics for packing and processing purposes	28	61.8	12.6	20.0	80

Table 2 (Continued)

Branches of Industry	Number of enterprises	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery (thousands of kw)	Average annual number of wage-earners (thousands)	Gross output, in prices of 1926-27 (thousands of rubles)
A	1	2	3	4	5
4. Woolen and worsted goods (including wool washing)	173	267.7	52.3	73.7	677
Woolen and worsted goods (excluding wool washing)	169	257.8	50.8	71.5	596
Including:					
Production of fabrics for processing purposes	4	7.7	1.4	2.5	33
5. Silk goods	64	49.9	5.6	21.7	282
6. Hemp and jute goods	303	81.3	17.3	39.3	193
7. Chemical treatment of textile fabrics	10	28.6	4.2	3.0	86
8. Knitted goods	594	151.0	14.1	111.3	854
9. Felt goods	371	59.9	11.4	23.0	156
XX. Needle industries	1,746	161.7	15.0	283.0	2,043
XXI. Leather, fur, boot and shoe industries	2,177	430.4	77.8	235.8	1,733
1. Leather and artificial leather industry and goods	338	231.5	48 9	49.4	528
Leather industry 11)	182	172.3	39.4	30.9	357
Artificial leather industry	11	37.7	7.1	2.2	24
Leather and artificial leather goods (excluding boots and shoes)	145	21.5	2.4	16.3	147
2. Fur industry 12)	158	53.5	7.6	28.8	447
3. Boots and shoes	1,681	145.4	21.3	157.6	758
XXII. Grease, tallow, soap and perfumery industry	197	118.4	16.3	18.4	461
1. Grease and tallow industry 13)	64	34.1	4.4	3.3	45
2. Soap and perfumery industry	133	84.3	11.9	15.1	416
XXIII. Food industry	9,494	3,880.6	599.7	673 2	8,790
1. Meat packing, curing, etc.	392	325.7	34.0	36.1	879
2. Fish curing, salting, etc.	1,768	494.8	19.7	131.4	415
3. Fruit and vegetable canning, preserving and drying	597	101.7	10.2	27.5	218
4. Dairy products	939	147.9	8.4	42.3	334
5. Vegetable oils	172	141.5	31.5	16.4	217
6. Oleomargarine	9	36.0	6.1	2.8	126
7. Flour-milling and milling products 14)	2,051	473.0	205.9	47.6	1,526
8. Macaroni, noodles, etc.	90	28.3	5.8	6.0	72
9. Bread and other bakery products	981	270.6	23.5	71.2	1,120
10. Starch, syrup and molasses	208	83.7	18.0	9.9	78
11. Sugar production	198	680.5	123.5	83.1	626
12. Confectionery	316	128.3	14 3	52.3	901
13. Canning industry	96	152.0	17.9	24.6	175
14. Kitchen-factories	147	138.8	11.2	32.8	346
15. Tea and coffee industry	53	28.2	3.7	3.9	102
16. Liquors, vinous 15)	510	236.3	22.7	26.7	220
17. Liquors, distilled 15)	197	126.9	5.3	16.0	608
18. Wine production	248	57.6	3.4	5.9	202
19. Beer and yeast 15)	162	120.2	24.1 16)	12.1	207
20. Non-alcoholic beverages	198	26.8	16)	4.9	65

Table 2 (Continued)

Branches of Industry	Number of enterprises	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery (thousands of kw)	Average annual number of wage-earners (thousands)	Gross output, in prices of 1926-27 (thousands of rubles)
A	1	2	3	4	5
21. Tobacco and "makhorka" (coarse tobacco) industry	102	73.7	8.6	16.6	305
22. Other branches of the food industry	60	8.1	1.9	3.1	48
XXIV. Miscellaneous industries	1,136	838.6	181.2	111.0	917
Including:					
1. Musical instruments and parts	73	24.4	4.2	11.7	63
2. School supplies, drawing and stationery materials	65	17.0	40	7.3	94
3. Scientific equipment	57	16.2	2,8	6.7	68
4. Toys and games	113	6.9	1.6	8.4	22
5. Jewelry and artistic ware	65	5.3	1.6	5.1	29
6. Cinema industry	27	39.6	1.9	3.1	34
7. Cardboard industry and book binding	116	12.6	2 0	13.6	134
8. Feather, plume, bristle and hair articles	93	11.1	2.0	11.7	59
9. Haberdashery (horn, bone and plastic materials)	120	21.3	4.7	15.7	155
10. Other industries	407	684.2	156.4	27.7	259

1) Large-scale industry includes all enterprises employing 16 or more workers and equipped with mechanical motive power, or 30 workers if not so equipped (with some exceptions for individual branches of industry, as indicated in corresponding footnotes).

2) All stations with an installed rated capacity over 15 kw. are accounted for, excepting auxiliary units (power plants) at industrial enterprises. Industrial electric generating stations of district scope are included in this table.

3) Inclusive of primary treatment (grinding, cleaning, etc.).

4) Nitrogen fertilizers, phosphate fertilizers, acids and salts, alkali compounds and oxygen, acetylene, hydrogen, carbon-dioxide and other gases.

5) Synthetic dyestuffs, plastics, rayon, synthetic rubber, aliphatic products and synthetic aromatic oils.

6) Including (besides enterprises listed in footnote 1) all enterprises equipped with continuous furnaces.

7) Including (besides enterprises listed in footnote 1) all glass making enterpises equipped with tank furnaces.

8) Data for metallurgical combines do not include coving plants, iron and manganese mines and district electric generating stations, which are included in totals for the corresponding branches of industry.

9) Wood pulp, cellulose, paper, cardboard and fiber making.

10) Including all printing and publishing establishments employing more than 15 workers, whether or not equipped with mechanical motive power.

11) Including (besides enterprises listed in footnote 1) all leather plants equipped with more than 10 tanning vats or 3 tanning drums.

12) Fur dressing and fur goods.

13) Grease and tallow industry, treatment of bones for bone black, animal charcoal, glue, etc., and hydrogenation of grease.

14) Including all flour mills equipped with 5 or more milling units and all grain mills with 3 or more milling units.

15) All enterprises are included, irrespective of number of workers.

16) Capacity of prime movers and electric motors driving operating machinery for the production of "non-alcoholic beverages" is included under "Beer and yeast" production.

Table 3

Production: By Principal Branches of Large-Scale Industry

(In millions of rubles, in prices of 1926-27)

Branches of Industry	1913	1920	1926	1927	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8	9	10	11
Large-scale industry:											
Returns for industries statistically listed from 1913 1)	10,251	1,410	11,083	12,679	15,818	19,923	25,837	32.263	36,878	39,934	48,200
Group "A"	4,177	665	4,865	5,570	6,807	8,966	12,664	16,815	19,852	21,960	27,666
Group "B"	6,074	745	6,218	7,109	9,011	10,957	13,173	15,448	17,026	17,974	20,534
All large-scale industry 1)	2)	2)	2)	2)	16,860	21,204	27,699	34,159	38,831	42,041	50.568
Group "A"	2)	2)	2)	2)	7,727	10,098	14.293	18,479	21,551	23,743	29,619
Group "B"	2)	2)	2)	2)	9,133	11,106	13,406	15,608	17,280	18,298	20,949
Electric generating stations	45	2)	115	144	181	243	366	513	681	854	1,125
Coal mining	301	90	289	348	377	424	501	609	715	809	989
Crude petroleum production	194	80	217	252	300	352	424	520	492	497	589
Petroleum refining	238	72	284	322	386	503	718	905	976	960	1,085
Peat industry	18	22	46	64	69	71	83	135	174	160	214
Iron ore mining	52	0.5	22	32	39	50	68	69	79	95	140
Manganese ore mining	18	2)	11	8	10	24	20	16	14	16	25
Chemical industry 3)	364	2)	241	265	364	487	774	1,066	1,165	1,467	1,980
Including:											
Basic chemicals	83	24	55	69	90	119	200	241	267	332	461
Drugs, medicines and compounds	2)	2)	49	44	47	59	90	85	112	128	131
Paints and varnishes	2)	2)	40	36	54	80	148	158	160	157	201
Cement industry	69	1.6	51	54	68	82	114	134	135	105	128
Glass industry	146	14	94	105	128	167	208	222	278	258	346
China and pottery industry	35	2.7	34	38	52	60	71	89	119	125	147
Ferrous metallurgy	755	18	577	641	748	901	1,079	1,116	1,358	1,616	2,240

Non-ferrous metallurgy [4]	147	4	141	156	216	295	382	385	477	500	663
Metal-working industries [5]	1,131	122	1,455	1,653	2,135	2,940	4,844	7,398	9,219	10,604	13,315
Machine-building industry [5]	697	93	1,135	1.294	1,631	2,233	3,647	6,077	7,427	8,812	11,146
Including:											
Tractors [6]	—	—	—	—	—	—	15	119	279	469	676
Motor vehicles	—	—	10.0	13.3	23.1	41.8	92	180	336	566	810
Rubber and asbestos industry	120	17.6	131	159	184	247	339	462	621	615	801
Woodworking industry [7]	393	66	400	479	555	777	1.078	1,254	1.572	1,655	1,935
Paper industry [8]	128	6.8	142	139	165	237	261	267	275	302	335
Printing and publishing	196	20	138	130	149	196	239	237	319	389	471
Textile industry [9]	2,917	274	2,962	3,407	4,106	4,844	4.807	5,021	5,664	5,987	6,683
Including:											
Cotton goods	1,876	85	2,051	2,318	2,742	3,088	2,631	2,649	3,047	3,186	3,496
Linen goods	168	23.5	200	196	192	281	324	225	216	216	250
Woolen and worsted goods [10]	316	54	344	425	535	631	703	692	654	663	677
Silk goods	163	5.2	36	57	75	103	171	182	199	235	282
Knitted goods	17.3	[2]	68	105	172	258	394	513	559	690	854
Needle industries	14	[2]	122	223	449	822	1,629	2,195	2,142	2,069	2,043
Leather industry	86	[2]	310	352	370	576	689	767	702	535	528
Fur industry	3	[2]	9	19	37	68	121	251	384	434	447
Boot and shoe industry	65	30	132	159	273	458	796	838	866	822	758
Grease, tallow, soap and perfumery industry	101	19	167	204	290	339	354	378	385	314	461
Food industry [11]	2,722	359	2,600	2,865	3,533	3,921	4.577	5,627	6,373	6.917	8,375

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[1] See footnote to Table 1, page 41.

[2] No data available.

[3] Basic chemicals, synthetic organic chemicals, wood distillation, paints and varnishes.

[4] Inclusive of non-ferrous ore mining, for which no separate data are available for the early years. Cable-making is included under "Metal-working industries".

[5] For purposes of comparison with 1913, production of metal-working industries does not include railroad repair shops. Production of the machine-building industry includes repair plants.

[6] Exclusive of tractors produced at the Kirov Plant.

[7] Plywood industry, manufacture of furniture, matches and other woodwork.

[8] Up to 1930 the figures include cardboard plants.

[9] Inclusive of knitted and felt goods.

[10] Including wool washing.

[11] For purposes of comparison with 1913, data are exclusive of fisheries.

Table 4

Fixed Capital of Large-Scale Industry [1])

(In millions of rubles)

Branches of Industry	As at Oct. 1, 1928	As at Oct. 1, 1929	As at Jan. 1. 1932	As at Jan. 1, 1933	As at Jan. 1, 1934	As at Jan. 1, 1935
A	1	2	3	4	5	6
All industries	10,262	11,389	17,376	22,615	28.995	35,391
Group "A"	5.980	6,818	11.708	16,189	21,649	26,993
Group "B"	4,282	4,571	5,668	6,426	7,346	8,398
Electric generating stations	706.7	833.5	1.352.8	1,922.7	2,819.1	3,497.8
Coal mining	385.5	428.5	706.8	910.0	1,171.0	1,422.3
Petroleum industry	628.2	708.8	1,114.1	1.230.5	1,422.4	1,720.5
Peat extraction	77.1	83.8	152.7	195.1	252.0	355.2
Iron ore mining	37.9	42.6	70.3	120.7	163.6	241.4
Manganese ore mining	8.6	9.3	13.0	15.7	25.1	33.1
Chemical industry [2])	320.5	416.2	774.3	1,169.3	1,684.4	2,026.0
Including:						
Basic chemicals	124.1	144.1	278.6	460.7	702.6	834.8
Drugs, medicines and compounds	15.9	18.3	33.9	42.2	58.8	72.1
Paints and varnishes	22.1	24.4	34.1	45.5	50.5	60.2
Cement industry	101.2	105.2	157.0	213.4	234.0	293.4
Glass industry	74.4	79.5	122.5	143.7	176.8	228.1
China and pottery industry	42.3	46.2	53.0	61.6	69.3	79.4
Ferrous metallurgy	685.7	789.6	1,026.8	1,478.5	2,226.8	3,219.5
Non-ferrous metallurgy [2])	143.5	169.0	363.7	569.0	734.2	1,108.7
Metal-working industries [3])	1.905.9	2,081.2	3.882.4	5.363.4	6,989.7	8,346.7
Machine-building industry	1.688.9	1,848.6	3,342.8	4,617.0	6,125.4	7,361.6

Including:						
Tractors [2]	—	—	143.4	154.7	318.0	364.7
Motor vehicles	15.9	20.1	71.8	291.9	340.1	387.4
Woodworking industry [2]	236.1	265.8	425.6	623.3	797.9	893.5
Including:						
Plywood industry	160.4	178.3	265.5	375.7	489.2	558.5
Production of matches	23.8	24.8	40.0	43.3	46.2	47.0
Paper industry [2]	161.3	221.0	285.1	321.2	359.6	391.2
Printing and publishing	145.9	146.7	149.0	166.4	203.0	231.9
Textile industry [2]	2.006.4	2.147.6	2,370.2	2,491.3	2,647.3	2,832.3
Including:						
Cotton goods	1.447.5	1,522.8	1.554.3	1,574.9	1,592.0	1,640.9
Linen goods	178.7	184.5	205 9	209.1	212.4	215.1
Woolen and worsted goods [2]	191.2	215 0	246.7	233.1	247.0	267.7
Silk goods	38.1	40.5	42.8	44.8	47.0	49.9
Hemp and jute	47.2	51.5	62.4	69.7	72.7	81.3
Knitted goods	42.2	59.9	87.5	102.0	129.0	151.0
Needle industries	38.8	49.8	89.9	125.2	144.2	161.7
Leather industry	124.7	138.5	171.3	185.9	202.8	231.5
Fur industry	7.5	11.7	27.7	37.4	44.7	53.5
Boot and shoe industry	62.0	70.3	105.4	122.6	134.8	145.4
Grease, tallow, soap and perfumery industry	58.0	64.8	94.5	106.4	107 8	118.4
Food industry [4]	1,530.7	1,598.0	2.208.6	2.756.0	3,258.4	3,880.6
Including:						
Vegetable oils	83.2	88.1	113.9	123.4	127.8	141.5
Sugar industry	416.5	431.0	533.4	572.0	611.7	680.5
Confectionery	36.0	39.0	79.6	103.2	111.6	128.3
Canning industry	20.1	23.6	63.1	85.2	111.5	152.0
Tobacco and "makhorka" industry	59.1	60.9	63.3	65.3	67.6	73.7

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[1] Exclusive of depreciation. Fixed capital put in operation after stock-taking on Oct. 1, 1925 is reported according to actual value of operating balance; fixed capital put in operation before Oct. 1, 1925 is revaluated in terms of 1925 prices.

[2] See corresponding footnotes on page 49, Table 3.

[3] Including railroad repair shops.

[4] Inclusive of the fishing industry.

Table 5

Fixed Capital in Industry: By Industries [1])

Branches of Industry	Year	Buildings	Structures	Power plants	Operating machinery	Tools and implements	Inventory	Handling of material
		In per cent of all fixed capital						
A	B	1	2	3	4	5	6	7
All industries	Oct. 1, 1928	35.5	16.3	12.7	28.9	0.8	2.4	3.4
	Jan. 1, 1933	31.0	20.1	10.5	28.9	0.7	3.5	5.3
	„ 1, 1935	29.7	23.1	8.8	27.6	0.8	2.4	7.6
Group "A"	Oct. 1, 1928	28.0	24.9	13.7	25.1	1.1	2.3	4.9
	Jan. 1, 1933	27.6	24.3	10.6	27.4	0.8	3.3	6.0
	„ 1, 1935	27.0	27.2	8.7	26.4	0.8	2.2	7.7
Group "B"	Oct. 1, 1928	42.9	7.2	11.4	34.2	0.5	2.5	1.3
	Jan. 1, 1933	41.0	5.8	10.3	33.3	0.5	4.1	5.0
	„ 1, 1935	39.1	8.6	9.4	31.7	0.6	3.1	7.5
Electric generating stations	Oct. 1, 1928	23.3	42.5	32.3		0.4	0.7	0.8
	Jan. 1, 1933	16.4	46.3	34.5		1.1	0.7	1.0
	„ 1, 1935	17.6	48.5	30.6		1.2	0.8	1.3
Coal mining	Oct. 1, 1928	15.8	27.5	12.0	22.9	0.4	6.4	15.0
	Jan. 1, 1933	14.9	36.4	4.5	23.8	0.3	5.9	14.2
	„ 1, 1935	16.8	38.2	3.8	23.0	0.3	4.8	13.1
Petroleum industry	Jan. 1, 1933	7.1	60.0	5.4	23.6	0.4	0.8	2.7
	„ 1, 1935	7.5	60.5	4.7	23.6	0.5	0.7	2.5
Basic chemicals	Oct. 1, 1928	35.5	6.4	7.6	46.0	0.3	1.6	2.6
	Jan. 1, 1933	27.5	9.7	10.2	47.1	0.4	1.4	3.7
	„ 1, 1935	25.1	12.9	8.3	47.5	0.5	1.1	4.6
Rubber industry	Oct. 1, 1928	45.3	6.8	7.2	30.7	0.4	8.6	1.0
	Jan. 1, 1933	39.4	7.1	2.6	40.5	0.4	8.8	1.2
	„ 1, 1935	34.1	8.9	6.9	40.8	1.0	5.7	2.6
Cement industry	Oct. 1, 1928	33.2	12.4	17.2	29.3	0.4	1.4	6.1
	Jan. 1, 1933	29.4	14.9	12.9	33.4	0.3	2.1	7.0
	„ 1, 1935	30.6	13.0	9.2	36.2	0.4	1.3	9.3
Ferrous metallurgy	Oct. 1, 1928	20.5	24.0	14.3	28.8	0.5	1.7	10.2
	Jan. 1, 1933	20.5	32.1	10.9	24.4	0.3	1.7	10.1
	„ 1, 1935	21.9	36.9	8.8	20.6	0.4	0.9	10.5
Metal-working industries	Jan. 1, 1933	41.5	10.0	5.9	34.8	1.6	2.7	3.5
	„ 1, 1935	42.5	10.4	5.0	33.7	1.6	2.3	4.5

Machine-building industry	Jan. 1, 1933	41.8	10.0	5.7	34.5	1.7	2.8	3.5
	„ 1, 1935	42.7	10.5	4.7	33.5	1.6	2.3	4.7
Production of metal wares	Jan. 1, 1933	41.0	7.5	7.8	37.0	1.5	2.8	2.4
	„ 1, 1935	41.0	9.5	6.7	34.4	1.9	2.9	3.6
Sawmills	Jan. 1, 1933	24.7	20.4	17.1	26.7	0.3	3.9	6.9
	„ 1, 1935	25.8	23.0	16.2	22.8	0.3	3.7	8.2
Plywood industry	Jan. 1, 1933	34.8	9.1	18.0	31.4	0.4	3.4	2.9
	„ 1, 1935	37.0	10.7	16.4	27.6	0.4	3.3	4.6
Paper industry	Oct. 1, 1928	38.5		18.9	35.2	1.3	2.3	3.8
	Jan. 1, 1933	29.6	8.1	17.2	38.1	0.3	3.1	3.6
	„ 1, 1935	27.3	9.2	16.4	39.5	0.2	2.0	5.4
Cotton goods	Oct. 1, 1928	42.0	2.8	12.2	39.8	0.6	1.4	1.2
	Jan. 1, 1933	40.3	3.3	11.5	41.5	0.3	1.7	1.4
	„ 1, 1935	39.2	3.9	10.8	42.1	0.3	1.8	1.9
Linen goods	Oct. 1, 1928	46.6	3.1	12.2	34.6	0.6	1.3	1.6
	Jan. 1, 1933	42.0	4.2	15.6	33.4	0.6	2.0	2.2
	„ 1, 1935	39.9	5.5	16.1	32.5	0.5	2.0	3.5
Woolen and worsted goods	Oct. 1, 1928	44.2	4.2	14.5	33.7	0.3	2.4	0.7
	Jan. 1, 1933	42.0	6.3	14.9	31.4	0.8	2.9	1.7
	„ 1, 1935	39.7	7.8	13.0	33.2	0.8	2.8	2.7
Silk goods	Oct. 1, 1928	51.5	3.2	8.7	34.7	0.1	1.7	0.1
	Jan. 1, 1933	47.5	4.0	7.7	36.0	0.3	3.8	0.7
	„ 1, 1935	43.6	4.6	8.1	38.0	0.3	3.4	2.0
Flour-milling and milling products	Oct. 1, 1928	48.0	2.7	12.8	34.0	0.2	1.8	0.5
	Jan. 1, 1933	44.0	6.7	11.0	32.5	0.3	3.4	2.1
	„ 1, 1935	42.7	6.4	11.6	32.7	0.3	2.8	3.5
Sugar industry	Oct. 1, 1928	29.9	12.5	15.4	35.6	0.2	3.5	2.9
	Jan. 1, 1933	25.8	11.1	15.7	34.6	0.4	7.0	5.4
	„ 1, 1935	23.7	12.5	14.8	32.4	0.8	2.2	13.6
Canning industry	Oct. 1, 1928	66.3		10.6	17.7	0.4	3.8	1.2
	Jan. 1, 1933	40.5	8.0	9.1	31.3	0.8	5.5	4.8
	„ 1, 1935	41.5	14.8	7.2	25.0	1.1	4.2	6.2

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[1]) Enterprises of Industrial Commissariats.

Table 6

Depreciation of Fixed Capital: Fixed Capital Written Off on Account of Wear of Equipment, Expenditures on Overhauling and Running Repairs [1])

Branches of Industry	Year	Depreciation of fixed capital	Fixed capital written off on account of wear and depreciation of equipment	Equipment returned to service after overhauling	Running repairs and maintenance
		In per cent of average annual value of fixed capital			
A	B	1	2	3	4
All industries	1932	5.5	1.4	1.8	4.9
	1933	5.4	1.5	1.8	4.7
	1934	5.4	1.8	2.1	5.5
Group "A"	1932	5.6	1.5	1.8	5.0
	1933	5.6	1.5	1.9	4.7
	1934	5.6	1.8	2.1	5.3
Group "B"	1932	4.9	1.1	2.1	4.8
	1933	4.9	1.4	1.7	4.8
	1934	4.8	1.7	2.2	6.1
Electric generating stations	1932	5.8	0.6	1.0	1.6
	1933	5.3	0.7	1.3	1.7
	1934	5.2	0.9	1.6	2.4
Coal mining	1932	5.8	2.8	2.3	4.8
	1933	5.9	3.3	1.1	4.4
	1934	5.4	4.3	0.9	4.5
Petroleum industry	1932	9.1	2.0	0.5	2.3
	1933	9.1	1.6	0.6	2.0
	1934	9.5	2.0	0.6	2.3
Basic chemicals	1932	5.4	1.8	3.2	6.6
	1933	5.0	1.0	2.3	5.1
	1934	5.7	1.1	3.3	4.1
Rubber industry	1932	5.3	0.6	2.6	5.2
	1933	5.7	2.2	1.5	6.0
	1934	5.7	1.4	1.6	6.9
Cement industry	1932	5.4	0.7	2.7	8.0
	1933	4.8	0.9	2.3	6.1
	1934	4.9	1.5	1.8	7.5

Ferrous metallurgy	1932	4.6	1.3	3.3	8.0
	1933	4.8	1.3	3.4	7.0
	1934	4.9	1.2	3.0	6.2
Metal-working industries	1932	5.1	1.0	2.4	7.0
	1933	5.0	1.0	1.7	7.7
	1934	4.9	1.1	1.8	6.4
Machine-building industry	1932	5.2	1.0	2.4	7.0
	1933	5.0	1.1	1.7	6.2
	1934	4.9	1.0	1.8	6.3
Production of metal wares	1932	4.7	1.1	2.6	7.1
	1933	4.5	0.9	1.6	7.8
	1934	4.7	1.6	2.3	6.8
Sawmills	1932	6.6	2.2	2.5	7.2
	1933	6.3	2.2	2.2	7.5
	1934	6.2	2.0	2.3	7.5
Plywood industry	1932	6.3	1.1	4.3	7.3
	1933	6.0	1.6	3.7	8.0
	1934	5.8	1.6	3.0	8.0
Paper industry	1932	5.4	0.8	2.0	5.9
	1933	5.7	0.7	1.6	4.9
	1934	5.7	0.8	1.8	5.9
Cotton goods	1932	5.2	0.8	1.6	3.1
	1933	5.0	0.7	1.8	3.6
	1934	5.1	0.9	2.0	5.2
Linen goods	1932	4.7	0.9	2.3	3.6
	1933	4.7	0.8	2.2	3.5
	1934	4.6	1.2	3.1	4.3
Woolen and worsted goods	1932	5.1	0.8	1.7	4.3
	1933	5.1	0.8	2.5	5.0
	1934	5.2	1.1	2.9	5.8
Silk goods	1932	4.8	1.3	1.5	4.7
	1933	4.8	1.0	1.9	4.4
	1934	5.2	1.5	3.3	7.4
Sugar industry	1932	4.7	1.2	1.9	4.6
	1933	4.5	1.1	1.4	5.2
	1934	4.6	1.1	1.7	7.4
Canning industry	1933	5.6	1.2	1.5	5.4
	1934	4.7	2.5	2.0	5.9

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1) Enterprises of Industrial Commissariats.

Table 7

Capacity and Output of Electric Generating Stations

Stations	1913	1926	1928	1932	1933	1934	1935 1)
A	1	2	3	4	5	6	7
Capacity of Electric Generating Stations (thous. of kw, as at end of year)							
All electric generating stations	**1,098**	**1,586**	**1,905**	4,677	**5,583 2)**	**6,287 2)**	6,880 2)
I. District stations	177	456	626	3,020	3,708	**4,146**	**4,540**
Including:							
b) Hydro-electric stations	—	58	71	414	625	718	769
II. Municipal stations	151	235	279	243	279	315	360
III. Industrial stations	750	815	930	1,321	1,463	1,663	1,796
IV. Transport and rural stations	20	80	70	93	101	120	141
Output of Electric Energy (in millions of kw-hours)							
All electric generating stations	**1,945**	**3,508**	5,007	**13,540**	**16,357 2)**	**21,016 2)**	25,900 2)
I. District stations	431	1,190	2,001	9,217	11,499	15,274	19,500
Including:							
a) Fuel burning stations	431	1,186	1,637	8,520	10,436	13,119	16,354
b) Hydro-electric stations	—	4	364	697	1,063	2,155	3,146
II. Municipal stations	259	456	638	713	747	895	1,030
III. Industrial stations	1,225	1,743	2,263	3,425	3,849	4,547	5,020
IV. Transport and rural stations	3)	119	105	185	206	236	286

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1) Preliminary data.
2) Including electric power stations on construction projects, in hospitals, sanatoria, schools, etc., not previously listed.
3) No data.

Capacity of Power Plants of Large-Scale Industry

(In thousands of kw.) [1]

Table 8

	Year	Prime movers (mechanical)	Electric generators	Electric motors		Capacity of prime movers and electric motors driving operating machinery	
				Total	Of which: driven by purchased and mixed power (power both generated at, and purchased by, the plant)	Total	Of which: supplied with mechanical drive
A	B	1	2	3	4	5	6
All industries	**1926**	**1,754.1**	**815.3**	**1.500 9**	**681.7**	**2,439.7**	**938.8**
	1927	**1,899 9**	**843.4**	**1,649.9**	**868.0**	**2,706.4**	**1,056.5**
	1928	**1,972.7**	**930.4**	**1,929.7**	**1,058.8**	**2,972.0**	**1,042.3**
	1929	**2 013.7**	**974 3**	**2,256 6**	**1,350 6**	**3,296.0**	**1,039.4**
	1930	**2,090.6**	**1,052.6**	**2.679.1**	**1.883 4**	**3.717.1**	**1,038.0**
	1931	**2,221.6**	**1,187 8**	**3,310.7**	**2,513.0**	**4.344.5**	**1,033.8**
	1932	**2.517.3**	**1,307.4**	**4,294.0**	**3,306.7**	**5.503.9**	**1,209.9**
	1933	**2.826.7**	**1,438.5**	**5,505.6**	**4.318.7**	**6,893.8**	**1,388.2**
	1934	**3,374.3**	**1,636.0**	**6.547.4**	**5.257.6**	**8,285.7**	**1,738.3**
Group "A"	1926	1,096.7	578 0	1,153.7	524.2	1,672.4	518.7
	1927	1.198.5	594.6	1,253 2	660.0	1,857.1	603.9
	1928	1,251.8	654.0	1,471.6	806.9	2,069.4	597.8
	1929	1,325 0	695.1	1.738.7	1.040.7	2,368 6	629.9
	1930	1.397.8	753 8	2.048.1	1,484.5	2,692 1	644.0
	1931	1,580.8	903.8	2.583.2	2,005.1	3,260.2	677.0
	1932	1.843.0	1,026.6	3,485.5	2,730.4	4.301.9	816.4
	1933	2,143.1	1.162.1	4,554.9	3,574.9	5,535 9	981.0
	1934	2,633.0	1,330.2	5,486.5	4.415.9	6.789.3	1,302.8
Group "B"	1926	657.4	237.3	347.2	157.5	767.3	420.1
	1927	701 4	248 8	396.7	208.0	849.3	452.6
	1928	720 9	276.4	458 1	251.9	902.6	444.5
	1929	688.7	279.2	517.9	309.9	927.4	409 5
	1930	692.8	298.8	631.0	398.9	1.025.0	394.0
	1931	640.8	284.0	727.5	507.9	1.084.3	356.8
	1932	674.3	280.8	808.5	576.3	1.202.0	393.5
	1933	683.6	276.4	950.7	743.8	1.357.9	407.2
	1934	741.3	305.8	1,060.9	841.7	1.496.4	435.5

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[1] In this table and in tables 9, 10, 11 and 12 are included only auxiliary electric generating stations at industrial enterprises. Independent stations are not included.

Power Balance of Large-Scale Industry 1)

(In millions of kw-hours)

Table 9

	Year	Power produced			Purchased power	Total power supply	Consumption of power					Sale of power
		By prime movers		By generators			Total power (mechanical and electrical) 1)	Electric power			Mechanical energy	
		Total	Of which: power converted into electric energy					Total	Including: consumption for production purposes — For motive power	Including: consumption for production purposes — For process work		
A	B	1	2	3	4	5	6	7	8	9	10	11
All industries	1926	4,445.0	1,935.2	1,743.5	834.9	5.279.9	5,115.7	2,414 2	2,093 9	28 0	2.509.8	164.2
	1927	5,063.3	2,213.1	1,993 8	1,062.1	6.125 4	5.886.8	2 817.3	2.360.3	44.8	2,850.2	238.6
	1928	5.413.0	2,511.8	2,262.8	1,425 4	6,838.4	6,528 0	3.377.8	2.825.3	65 5	2.901.2	310.4
	1929	5.681.4	2,805.8	2,527.7	2,114.3	7,795.7	7,400.9	4,247 2	3.582.4	118.0	2,875,6	394.8
	1930	6,164 2	3,150.6	2,838.5	3,394,2	9,558.4	9.039.5	5.713.8	4.760.7	245.0	3,013.6	518.9
	1931	6,764.5	3 444.6	3.103.2	4,861.7	11,626 2	10.900.0	7,238.7	5,925.1	374.0	3,319.9	726.2
	1932	7,484.3	3,756.6	3.384.3	6,541.9	14.026.2	12,982.6	8,881.6	7,035.9	633.2	3,727.7	1,044.6
	1933	8,313.9	4.217.8	3,799 8	8,702.6	17,016.5	15,551.4	11,037.3	8,518.7	996 9	4,096.1	1,465.1
	1934	9,957.2	4,973.2	4,480.4	11,912.0	21,869.2	19,945.0	14,468.2	10,549.2	1,982.5	4,984.0	1,924.2
Group "A"	1926	2,705.0	1,440.5	1,297.8	576.3	3,281.3	3,150.4	1,743.2	1,503.6	26.8	1,264.5	130.9
	1927	3,166.8	1,653.8	1,490.0	716.7	3,883.5	3,685 2	2,008.4	1,661.4	43.0	1,513.0	198.3
	1928	3,363.3	1,869.1	1,683 9	948.9	4,312.2	4,049.7	2,370.3	1,951.3	62.9	1,494.2	262.5
	1929	3,664.3	2,108.4	1.899.4	1,453.5	5.117.8	4,777.5	3,012.6	2,511.5	115.2	1,555.9	340.3
	1930	4,271.4	2,452 2	2,209.2	2,478.7	6,750.1	6,317.0	4,254.8	3,524.3	242.2	1,819.2	433.1
	1931	4,887.2	2,732 8	2,462.0	3.671.1	8.558.3	7,916.4	5,491.2	4,441.1	370.7	2,154.4	641.9
	1932	5,554.9	3,050.0	2,747.8	5,037.1	10,592 0	9,656.2	6,849.1	5,324 6	616.3	2,504.9	935.8
	1933	6,351.4	3,503.3	3,156.1	6.930.8	13,282.2	11,958.6	8,763.3	6,574.9	973.3	2,848.1	1,323.6
	1934	7,806.4	4,213.1	3,795.6	9,787.6	17,594 0	15,825.1	11,814.3	8,291.1	1,940.7	3,593.8	1,768.9
Group "B"	1926	1,740.0	494.7	445.7	258.6	1.998.6	1,965.3	671.0	590.3	1.2	1,245.3	33.3
	1927	1,896.5	559.3	503.8	345.4	2,241.9	2,201.6	808.9	698.9	1.8	1,337.2	40.3
	1928	2,049.7	642 7	578.9	476.5	2,526.2	2,478.3	1,007 5	874.0	2.6	1,407.0	47.9
	1929	2,017.1	697.4	628.3	660.8	2,677.9	2.623.4	1,234.6	1,070 9	2.8	1,319.7	54.5
	1930	1,892.8	698.4	629.3	915.5	2,808.3	2,722.5	1,459.0	1,236.4	2.8	1,194.4	85.8
	1931	1,877.3	711.8	641.2	1,190.6	3,067.9	2,983.6	1,747.5	1,484.0	3.3	1,165.5	84.3
	1932	1,929.4	706.6	636.5	1,504.8	3,434.2	3,325.4	2,032.5	1,711.3	16.9	1,222.8	108.8
	1933	1,962 5	714.5	643.7	1,771 8	3,734.3	3,592.8	2,274.0	1,943.8	23.6	1,248.0	141.5
	1934	2,150.8	760.1	684.8	2,124.4	4,275.2	4,119.9	2,653.9	2,258.1	41.8	1,390.7	155.3

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1) See footnote to Table 8.

2) Column 6 exceeds somewhat the sums in columns 7 and 10, as it includes losses incurred in converting mechanical energy into electric power.

Table 10

Centralization of Power Supply in Large-Scale Industry [1]

Indices	1926	1927	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8	9
All Industries									
1. Coefficient of centralization of total power supply [2]	15.8	17.3	20.8	27.1	35.5	41.8	46.6	51.1	54.4
Per cent of 1928	76.0	83.2	100.0	130.3	170.7	201.0	224.0	245.7	261.5
2. Coefficient of centralization of electric power supply [3]	32.4	34.8	38.6	45.5	54.5	61.0	65.9	69.6	72.7
Per cent of 1928	83.9	90.2	100.0	117.9	141.2	158.0	170.7	180.3	188.3
Group "A"									
1. Coefficient of centralization of total power supply [2]	17.6	18.4	22.0	28.4	36.7	38.4	47.5	52.1	55.6
Per cent of 1928	80.0	83.6	100.0	129.1	166.8	174.5	215.9	236.8	252.7
2. Coefficient of centralization of electric power supply [3]	30.7	32.5	36.0	43.3	52.8	59.9	64.7	68.7	72.1
Per cent of 1928	85.3	90.3	100.0	120.3	146.7	166.4	179.7	190.8	200.3
Group "B"									
1. Coefficient of centralization of total power supply [2]	12.9	15.4	18.9	24.7	32.6	38.8	43.8	47.4	49.7
Per cent of 1928	68.3	81.5	100.0	130.7	172.5	205.3	231.7	250.8	263.0
2. Coefficient of centralization of electric power supply [3]	36.7	40.7	45.1	51.2	59.3	65.0	70.3	73.4	75.6
Per cent of 1928	81.4	90.2	100.0	113.5	131.5	144.1	155.9	162.7	167.6

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[1] See footnote to Table 8.

[2] By coefficient of centralization of total power supply is understood the ratio of purchased power to total input of mechanical and electrical power generated by prime movers at plants plus purchased power.

[3] Ratio of purchased electric energy to totalinput of electric energy (generated at plants plus purchased electric energy).

ble 11

Electrification of Large-Scale Industry [1]

Indices	1926	1927	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8	9
All Industries									
1. General coefficient of electrification [2]	48.9	49.9	53.9	59.5	65.2	68.5	70.8	73.5	75.0
Per cent of 1928	90.7	92.6	100.0	110.4	121.0	127.1	131.3	136.4	139.1
2. Coefficient of electrification of industrial processes [3]	45.8	45.8	49.9	56.3	62.4	65.5	67.3	69.9	71.6
Per cent of 1928	91.8	91.8	100.0	112.8	125.0	131.3	134.9	140.1	143.5
Group "A"									
1. General coefficient of electrification [2]	57.1	56.9	61.1	65.5	69.4	71.7	73.5	75.9	77.2
Per cent of 1928	93.5	93.1	100.0	107.2	113.6	117.3	120.3	124.2	126.3
2. Coefficient of electrification of industrial processes [3]	54.8	53.0	57.4	62.8	67.4	67.6	70.3	72.6	74.0
Per cent of 1928	95 5	92.3	100.0	109.4	117.4	117.8	122.5	126.5	128.9
Group "B"									
1. General coefficient of electrification [2]	35.2	37.9	41.8	48.1	55.0	59.7	62.4	64.7	65.7
Per cent of 1928	84.2	90.4	100.0	115.1	131.6	142.8	149.3	154.8	157.2
2. Coefficient of electrification of industrial processes [3]	32.2	34.4	38.4	44.9	50.9	56.1	58.6	61.2	62.3
Per cent of 1928	83.9	89.6	100.0	116.9	132.5	146.1	152.6	159.4	162.2

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[1] See footnote to Table 8.

[2] Per cent of electric power to total input of power (generated by prime movers at plant plus purchased power).

[3] Per cent of electric energy consumed for manufacturing purposes to total amount of power (mechanical and electrical) consumed for the same purposes.

Table 12

Power Supply and Electric Power Supply per Worker in Large-Scale Industry [1]

Indices	1926	1927	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8	9
All Industries									
1. Total power supply per worker [2]	1.18	1.26	1.30	1.42	1.48	1.59	1.67	1.86	2.19
Per cent of 1928	90.8	96.9	100.0	109.2	113.8	122.3	128.5	143.1	168.5
2. Electric power supply per worker [3]	0.58	0.64	0.69	0.82	0.95	1.07	1.16	1.37	1.63
Per cent of 1928	84.1	92.8	100.0	118.8	137.7	155.1	168.1	198.6	236,2
3. Mechanical power supply per worker [4]	0.60	0.62	0.61	0.60	0.53	0.52	0.51	0.49	0.56
Per cent of 1928	98.4	101.6	100.0	98.4	86.9	85.2	83.6	80.3	91.8
Group ‹A›									
1. Total power supply per worker [2]	1.46	1.56	1.58	1.70	1.76	1.87	1.96	2.21	2.70
Per cent of 1928	92.4	98.7	100.0	107.6	111.4	118.4	124.1	139.9	170.9
2. Electric power supply per worker [3]	0.80	0.85	0.91	1.06	1.18	1.29	1.41	1.65	2.03
Per cent of 1928	87.9	93.4	100.0	116.5	129.6	141.8	154.9	181.3	223.0
3. Mechanical power supply per worker [4]	0.66	0.71	0.67	0.64	0.58	0.58	0.55	0.56	0.67
Per cent of 1928	98.5	106.0	100.0	95.5	86.6	86.6	82.1	83.6	100,0
Group ‹B›									
1. Total power supply per worker [2]	0.85	0.92	0.97	1.03	1.03	1.07	1.09	1.11	1.15
Per cent of 1928	87.6	94.8	100.0	106.2	106.2	110.3	112.4	115.5	118.6
2. Electric power supply per worker [3]	0 32	0.38	0.43	0.51	0.57	0.67	0.66	0.76	0.80
Per cent of 1928	74.5	88.5	100.0	118.7	132.6	156.0	160.5	182.9	186.0
3. Mechanical power supply per worker [4]	0.53	0.54	0.54	0.49	0.46	0.40	0.40	0.34	0.35
Per cent of 1928	98.1	100.0	100.0	90.7	85.2	74.1	74.1	63.0	64.8

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[1] See footnote to Table 8.
[2] Electric and mechanical power per man-hour actual work (in kw-hrs).
[3] Electric power per man-hour actual work (in kw-hrs).
[4] Mechanical power per man-hour actual work (in kw-hrs).

Organizational Structure of Large-Scale

Controlling Organizations	Large-scale industry		
	Number of enterprises	Average yearly number of wage-earners	Gross output in prices of 1926/27 (thous. of rubles)
A	1	2	3
1. Industry of All-Union scale	11,439	4,787,571	30,662,386
Including: People's Commissariats of Heavy Industry, Light Industry, Timber Industry, Food Industry and Internal Trade; Committee of Products Collections Attached to the Council of People's Commissars; Chief Administration of the Photo and Cinema Industry	6,852	3,958,478	27,750,251
2. Industry of Constituent Republic scale	1,608	287,204	1,956,921
Including: People's Commissariats of Local Industry of the Constituent Republics	832	212,590	1,473,050
3. Industry of Regional scale	4,598	781,371	5,620,097
Including: Local Industry Administrations	2,855	574,354	4,720,906
4. Industry of City scale	1,183	73,054	375,293
Including: Enterprises controlled by City Executive Committees	855	58,498	271,453
5. Industry of District scale	2,502	53,411	248,161
Including: Enterprises controlled by District Executive Committees	2,177	43,070	207,431
6. Enterprises controlled by Producers' Cooperatives	11,223	703,947	2,254,614
7. Enterprises controlled by public organizations	680	37,170	173,460
8. Auxiliary industrial enterprises	4,539	168,433	722,620
Including enterprises controlled by:			
Machine-Tractor Stations	1,310	34,942	107,597
State Farms	1,502	49,180	137,124
Collective Farms	438	5,254	26,941
Workers' Supply Departments	345	20,446	164,136
Other auxiliary enterprises	944	58,611	286,822
9. Industrial enterprises run by concessionaires	6	8,410	26,987
All industry	**37.778**	**6.900,571**	**42,040,539**
Including enterprises controlled by:			
Building organizations	1.460	115,123	420,639
Transport and communications organizations	2,184	539,836	1,319,123
Rural organizations	4,319	239,445	708,138

Notes: This table is based on the returns of the Industrial Census of 1934. The 1934
enterprises not so equipped employing 3 or more workers. Shops on State and Collective Farms em
All-Union, Constituent Republic, Regional, City and District scale industries include enter
controlled by Consumers' and House Building Cooperatives. Auxiliary industrial enterprises are not
Enterprises controlled by Moscow and Leningrad city organizations are included under the
Flour-mills formerly controlled by the Committee of Products Collections Attached to the
Committees" and "District Executive Committees", to which they have been transferred since the
Figures relating to enterprises controlled by Commissariats of Local Industry and of Local
vice versa, in accordance with the decrees of the Council of People's Commissars enacted on July
Producers' Cooperatives include the All-Union Association of Producers' Cooperatives, the
"Other Auxiliary Enterprises" include enterprises controlled by trading and products collect
institutions, tenants' associations, etc.
Enterprises controlled by building organizations include also auxiliary enterprises belonging
Enterprises controlled by transport and communications organizations include enterprises
the Central Highways Administration, Chief Administration of the Civil Air Fleet, People's Commissa
Enterprises controlled by rural organizations include enterprises under the People's Commissa
led by Machine-Tractor Stations, State Farms and Collective Farms.

Table 13

and Small-Scale Industry, as of 1933

Small-scale industry			All industry		
Number of enterprises	Average yearly number of wage-earners	Gross output in prices of 1926-27 (thous. of rubles)	Number of enterprises	Average yearly number of wage-earners	Gross output in prices of 1926-27 (thous. of rubles)
4	5	6	7	8	9
3,112	23,170	120,416	14,551	4,810,741	30,782,802
1,465	10,445	65,284	8,317	3,968,923	27,815,535
1,010	6,610	45,891	2,618	293,814	2,002,812
232	1,384	16,605	1,064	213,974	1,489,655
5,374	24,921	213,891	9,972	806,292	5,833,988
2,973	11,350	134,688	5,828	585,704	4,855,594
1,320	8,486	49,928	2,503	81,540	425,221
718	4,463	26,656	1,573	62,961	298,109
10,595	39,758	319,517	13,097	93,169	567,678
8,150	27,137	241,920	10,327	70,207	449,351
23,611	274,617	479,085	34,834	978,564	2,733,699
2,770	11,331	53,162	3,450	48,501	226,622
236,291	471,596	2,412,500	240,830	640,029	3,135,120
1,060	6,464	19,163	2,370	41,406	126,760
12,619	41.292	185,693	14,121	90,472	322,817
219,194	405,966	2,098,504	219,632	411,220	2,125,445
1,882	10,350	64,253	2,227	30,796	228,389
1,536	7,524	44,887	2,480	66,135	331,709
—	—	—	6	8,410	26,987
284,083	**860,489**	**3,694,390**	**321,861**	**7,761,060**	**45,734,929**
588	3,938	15,989	2,048	119,061	436,628
902	6,955	16,920	3,086	546,751	1,336,043
233,489	456,930	2,316,975	237,808	696,375	3,020,113

census includes all operating industrial enterprises equipped with mechanical motive power and all
ploying one or two workers are also included.
prises under the control of all forms of State organizations and departments, as well as enterprises
included.
head of "Regional Industry".
Council of People's Commissars are listed under organizations controlled by "Regional Executive
spring of 1934.
Industry Administrations include enterprises transferred from All-Union control to local control and
17, 1934 and Sept. 29, 1934.
All-Union Association of Lumber and Woodworking Cooperatives, etc.
ing organizations, administrative organs, educational institutions, scientific research institutes, health

to building organizations and construction administrations under all forms of controlling units.
under the People's Commissariat of Railway Transport, the People's Commissariat of Water Transport,
riat of Postal and Electrical Communications, Chief Administration of the Great Northern Sea Route.
riat of Agriculture, the People's Commissariat of State Farms, and also subsidiary enterprises control-

Table 14

Territorial Distribution of Large-Scale Industry, as of 1934

Republics, Regions and Territories	Number of enterprises	Average annual number of wage-earners (in thous.)	Gross output, in prices of 1926-27	
			Millions of rubles	Per cent of total for the U.S.S.R.
A	1	2	3	4
U. S. S. R.	**45,584**	**7,404**	**50,568**	**100.00**
I. R. S. F. S. R.	33,068	5,542	37,043	73.26
Northern Territory	880	203	538	1.06
Karelian A. S. S. R.	224	53.7	157	0.31
Leningrad Region	2,947	788	7,082	14.00
Including: Leningrad	1,220	532	5,983	11.83
Western Region	1,081	143	658	1.30
Kalinin Region	948	154	782	1.55
Moscow Region	4,415	1,174	11,415	22.58
Including: Moscow	1,845	598	7,518	14.87
Ivanovo Region	1,548	468	2,730	5.40
Gorky Territory	1,649	279	1,707	3.38
Kirov Territory	922	129	491	0.97
Kursk Region	870	59.5	310	0.61
Voronezh Region	1,205	126	677	1.34
Sverdlovsk Region	1,826	355	1,450	2.87
Cheliabinsk Region	858	164	930	1.84
Omsk Region	515	48.8	244	0.48
Bashkir A. S. S. R.	614	59.6	221	0.44
Tatar A. S. S. R.	511	70.4	500	0.99
Kuibyshev Territory	1,159	148	757	1.50
Orenburg Region	335	21.0	110	0.22
Stalingrad Territory	925	113	899	1.78
Saratov Territory	871	59.2	354	0.70
Azov-Black Sea Territory	2,478	238	1,579	3.12
Northern Caucasus Territory	988	66.5	824	1.63
Crimean A. S. S. R.	545	45.9	289	0.57
Kazakhstan A. S. S. R.	1,077	101.0	359	0.71
Kara-Kalpak A. S. S. R.	44	3.7	16.3	0.03
Kirghiz A. S. S. R.	160	12.9	77.0	0.15
West Siberian Territory	1,351	185	845	1.67
Krasnoyarsk Region	452	51.2	154	0.30
East Siberian Territory	666	87.5	326	0.64
Yakut A. S. S. R.	38	10.9	33.7	0.07
Far Eastern Territory	966	123	528	1.05
II. **Ukrainian** S. S. R.	8,335	1,399	9,370	18.53
Vinnitsa Region	925	75.2	383	0.76
Dniepropetrovsk Region	1,089	209	1,599	3.16
Donetz Region	1,644	567	2,854	5.64
Kiev Region	1,344	157	1,148	2.27
Odessa Region	1,120	118	1,021	2.02
Kharkov Region	1,514	218	2,072	4.10
Chernigov Region	516	46.3	237	0.47
Moldavian A. S. S. R.	183	8.8	55.9	0.11
III. **White Russian** S. S. R.	1,486	195	983	1.94
IV. **Transcaucasian** S. F. S. R.	1,700	173	2,219	4.39
Georgian S. S. R.	849	61.5	564	1.12
Armenian S. S. R.	229	19.1	126	0.25
Azerbaidjan S. S. R.	622	92.5	1,529	3.02
V. **Uzbek** S. S. R.	686	68.6	748	1.48
VI. **Turkmenian** S. S. R.	217	19.5	143	0.28
VII. **Tadjik** S. S. R.	92	7.2	62.6	0.12

2. METAL-WORKING INDUSTRY

Table 1

Summary Indices for the Metal-Working Industry

Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of year (thous. of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
Metal-working industry [1]				
1928	1,905.9	549.9	599,678	2,239
1929	2,081.2	612.0	707,951	3,054
1930	2,803.3	765.4	998,224	4,969
1931	3,882.4	943.4	1,440,907	7,551
1932	5,363.4	1,314.5	1,811,252	9,408
1933	6,989.7	1,680.5	1,761,392	10,822
1934	8,346.7	2,056.8	1,896,928	13.611
Including:				
Construction of machinery [2]				
1928	1,688.9	427.9	479,915	1,735
1929	1,848.6	475.0	543,307	2,347
1930	2,568.6	637.4	771,200	3,772
1931	3,342.8	791.4	1,192,864	6,230
1932	4,617.0	1,104.0	1,485,790	7,616
1933	6,125.4	1,450.5	1,487,615	9,030
1934	7,361.6	1,807.5	1.615,089	11,442

Table 2

Production Costs in the Metal-Working Industry Itemized [3]

(Per cent of total)

Year	Raw materials and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
Metal-working industry							
1932	33.1	3.9	2.8	43.7	7.1	9.4	100.0
1934	37.7	4.6	3.3	38.3	6.4	9.7	100.0
Including:							
Construction of machinery							
1932	32.4	4.0	2.9	44.1	7.0	9.6	100.0
1934	37.8	4.5	3.3	38.2	6.3	9.9	100.0

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[1] Inclusive of railroad repair shops.

[2] Inclusive of repair plants and shops.

[3] Enterprises of Industrial Commissariats.

Table 3

Power Supply in the Metal-Working Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers 1)	Thous. of kw	252.6	263.7	281.5	306.5	425.5	436.0	668.9
Capacity of electric generators 1)	„	171.8	184.6	191.7	228.3	300.3	314.6	388.5
Capacity of electric motors 1)	„	469.1	532.9	675.6	865.2	1,189.3	1,559.1	1,776.4
Including: Capacity of electric motors utilizing purchased power	„	290.4	347.1	564.7	749.5	981.9	1,264.1	1,474.4
Capacity of prime movers and electric motors driving operating machinery 1)	„	549.9	612.0	765.4	943.4	1,314.5	1,680.5	2,056.8
Power generated by prime movers	Millions of kw-hours	498.3	555.6	697.9	772.9	885.0	1,094.4	1,412.5
Power generated by electric generators	„	332.6	379.3	443.8	454.2	595.2	736.6	937.1
Purchased power	„	239.5	333.8	686.4	1,085.0	1,480.5	1,986.2	2,352.4
Sale of power	„	35.0	44.9	65.4	90.8	182.3	279.0	327.9
Total consumption of power 2)	„	702.8	844.5	1,318.9	1,767.1	2,183.2	2,801.6	3,437.0
a) Electric energy	„	537.0	668.2	1,064.8	1,448.4	1,893.4	2,443.8	2,961.6
Electric energy used as motive power	„	430.6	533.3	850.1	1,125.8	1,387.1	1,716.5	1,960.0
Electric energy used for process work	„	18.2	36.0	55.0	86.5	157.7	207.8	354.4
b) Mechanical energy used for driving operating machinery	„	129.2	134.6	205.3	268.7	224.4	276.8	372.3
Coefficient of centralization of electric power supply	—	41.9	46.8	60.7	70.5	71.3	72.9	71.5
Coefficient of electrification of industrial processes	—	77.6	80.9	81.5	81.9	87.3	87.4	88.2
Total power supply per worker	Kw-hours per man-hour	0.77	0.84	0.87	0.90	0.97	1.11	1.28
Electric power supply per worker	„	0.55	0.63	0.70	0.76	0.84	1.01	1.12

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1) As at end of year.

2) Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 4

Production of Boilers and Accessories

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
A. Steam boilers [1]	Sq. m	**87,907**	**166,417**	**200,328**	**226,031**	**197,345**
	Units	**815**	**1,346**	**1,676**	**1,809**	**2,002**
I. Water-tube boilers . . .	Sq. m	53,050	115,468	146,322	162,762	111,805
	Units	237	261	460	450	305
II. Fire-tube boilers	Sq. m	15,674	27,253	21,994	21,082	44,394
	Units	161	596	447	437	977
III. Vertical boilers (Shukhov system)	Sq. m	5,035	3,366	12,418	13,584	7,643
	Units	259	221	560	608	324
IV. Other boilers	Sq. m	14,148	20,330	19,594	28,603	33,503
	Units	158	268	209	304	396
B. Economizers	Sq. m	**4,976**	**55,539**	**224,661**	**269,719**	**281,467**
Cast iron water economizers	"	4,976	11,722	29,661	100,410	115,092
Steel water economizers	"	—	4 590	—	650	2,206
Cast iron air economizers	"	—	2,147	12,306	21,267	34,407
Steel air economizers		—	37,080	182,694	147,392	129,762

Table 5

Production of Prime Movers

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
Aggregate capacity of prime movers produced	H. P.	**182,101**	**1,020,604**	**2,075,690**	**1,786,640**	**3,075,912**
A. Steam turbines	Kw	**35,709**	**239,000**	**634,500**	**363,800**	**672,372**
	Units	**17**	**30**	**41**	**47**	**55**

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[1] Exclusive of heating boilers.

Table 5 (Continued)

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
B. Water turbines	Kw	12,014	59,461	52,943	74,600	51,916
	Units	30	27	36	24	33
C. Steam engines	H. P.	4,150	31,632	28,549	31,676	38,715
	Units	7	209	259	480	528
Up to 150 h. p.	H. P.	—	1,302	1,992	3,860	12,255
	Units	—	105	188	384	458
150—450 h. p.	H. P.	750	20,730	20,327	25,716	19,050
	Units	4	91	63	93	56
Over 450 h. p.	H. P.	3,400	9,600	6,230	2,100	7,410
	Units	3	13	8	3	14
D. Locomobiles	H. P.	14,614	35,450	26,933	21,334	50,962
	Units	181	394	411	316	868
E. Internal combustion engines						
1. Diesel engines [1]	H. P.	38,940	95,790	92,424	131,369	158,005
	Units	201	495	353	540	754
2. Other oil-burning engines	H. P.	58,810	116,463	133,081	202,061	239,603
	Units	4,033	7,047	8,186	11,707	12,902
Including:						
Stationary engines	H. P.	58,558	96,087	117,095	174,238	—
	Units	3,970	5,940	7,302	10,260	—
Marine engines	H. P.	252	20,376	15,986	27,823	—
	Units	63	1,107	884	1,447	—
3. Engines utilizing light motor fuel (exclusive of motor vehicle and tractor engines)	H. P.	684	21,532	18,706	28,491	57,700
4. Motor vehicle and tractor engines; engines for combined harvesters and threshers; self-propelled track-inspection cars, etc.	H. P.	—	313,830	844,204	777,774	1,545,896
	Units	—	10,069	20,488	16,740	36,522

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[1] Aggregate capacity of Diesel engines produced in 1913 amounted to 35,100 h. p.

Table 6

Production of Electric Power Equipment

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
Alternating current generators [1]	Kw	**92,586**	**1,164,341**	**736,495**	**678,395**	**732,445**
A. Turbo-generators	Kw	**75,000**	826,000	**385,000**	**335,000**	**425,500**
	Units	**26**	**53**	**43**	**36**	**44**
Up to 4 thous. kw	"	22	18	35	26	29
5—12 thous. kw.	"	4	11	3	3	4
13—24 " "	"	—	20	—	—	1
25—50 " "	"	—	4	5	7	10
B. Hydro-electric generators	Kw	—	**259.000**	**201,500**	**131,000**	**46,851**
	Units	—	**18**	**16**	**9**	**4**
Up to 6 thous. kw	"	—	11	6	2	—
7—12 " "	"	—	—	1	5	2
13—25 " "	"	—	5	8	1	2
62 " "	"	—	2	1	1	—
C. Other alternating current generators	Kw	**17,586**	**79 341**	**149,995**	**212,349**	**260,094**
	Units	**72**	**216**	**431**	**815**	**1,332**
Up to 100 kw	Kw	2,032	7,873	18,740	24,638	42,411
	Units	32	147	308	542	1,012
Over 100 "	Kw	15,554	71,468	131,255	168,688	217,683
	Units	40	69	123	236	320
D Direct and alternating current motors and machines [2]						
1. Direct current motors	Kw	40,220	150,952	113,963	101,123	138,773
	Units	2,870	9,482	7,182	11,508	14,819
Including:						
Over 100 kw capacity	Kw	9.722	97,534	74,464	40,809	58,392
	Units	27	128	162	142	200

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[1] Capacity of generators exclusive of exciter sets.

[2] Exclusive of railway, traction, crane and special motors, listed separately.

Table 6 (Continued)

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
2. Alternating current motors	Kw	258,638	1,658,000	1,385,009	1,485,283	1,787,355
	Units	33,127	203,523	152,891	121,986	161,663
Including:						
Over 100 kw capacity	Kw	54,991	300,039	298,348	573,989	654,350
	Units	367	1,328	1,408	2,194	2,865
3. Railway and traction motors	Kw	34,366	103,132	117,362	153,469	176,190
	Units	828	1,837	2,047	1,876	1,907
For street railways	Kw	34,366	51,962	58,194	41,989	45,892
	Units	828	1,308	1,352	960	1,008
For suburban railroads and subway (Metro)	Kw	—	3,840	11,030	48,890	32,270
	Units	—	24	69	315	197
For electric locomotives on trunk line railroads	Kw	—	38,080	31,960	50,320	86,020
	Units	—	112	94	145	253
For Diesel electric locomotives	Kw	—	2,940	8,260	5,460	5,880
	Units	—	21	59	39	42
For mine electric locomotives	Kw	—	3,040	4,220	3,790	3,860
	Units	—	304	422	379	386
For factory electric locomotives	Kw	—	3,270	3,848	3,020	2,268
	Units	—	68	52	38	21
4. Direct current crane motors	Kw	2,133	46,860	43,366	34,730	29,344
	Units	177	1,742	2,465	1,499	1,352
5. Alternating current crane motors	Kw	5,991	47,890	59,210	50,030	47,249
	Units	425	3,462	4,301	3,164	3,048
6. Motors for coal-cutting machines	Kw	—	2,992	9,108	7,849	11,206
	Units	—	136	416	482	645
7. Motors for oil extraction	Kw	—	21,558	36,186	28,712	12,777
	Units	—	296	489	388	168
8. Train lighting machines	Kw	1,836	10	1,710	1,900	2,250
	Units	328	2	342	379	450
9. Locomotive lighting machines	Kw	—	—	973	1,755	2,192
	Units	—	—	561	1,881	2,848
10. Small motors 4)	Kw	5	4,610	6,362	6,978	1)
	Units	162	19,857	26,688	30,876	2)

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1) No data available

2) Under 1 kw capacity.

Table 6 (Continued)

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
E. **Power transformers** [1] .	KVA	403,186	3,426,000	3,330,000	2,874.000	3,461,300
	Units	3,024	8,283	6,868	6,701	9,894
Including: Over 18,000 KVA . . .	KVA	117,050	1,997,400	1,821,000	1,689,200	1,815,300
	Units	43	476	207	196	221
F. **Oil circuit breakers** . .	"	1,812	11,592	10,185	11,225	11,469
G. **Single-armature current converters**	Kw	1,135	2,680	2,121	1,136	1,184
	Units	3	4	4	10	14
H. **Mercury arc rectifiers, metal**	Kw	1,200	88,888	103,294	166,661	83,540
	Units	4	159	143	160	94
I. **Mercury arc rectifiers with glass container** . .	Kw	69	2,208	472	819	1,187

Table 7

Production of Metal-Cutting Machine Tools

Description	1927-28	1932	1933	1934
A	1	2	3	4
Total machine-cutting tools	1,783	18,124	18,612	21,131
Turning lathes	830	7,115	7,816	9,076
Turret lathes	—	512	1,049	1,677
Drilling machines	546	6,838	5,204	4,971
Planers, vertical	146	233	65	111
Planers, horizontal (shapers)	35	835	968	1,037
Slotters	35	46	89	100
Milling machines	53	1,071	1,581	1,608
Boring machines	10	67	95	155
Grinding machines	18	475	619	1,111
Gear cutting machines	—	—	16	171
Threading machines	110	861	807	851
Combined machine-tools ("Krause" type)	—	30	132	167
Other machine tools	—	41	60	96
Including:				
Tool grinding machines	215	2,289	4,284	3,056
Polishing machines	100	97	354	832

Table 8

Production of Electric and Gas Welding Equipment

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Electric welding outfits	129	7,803	7,514	6,603	8,872
Acetylene generating units	80	9,769	1,952	2,650	3,514
Burners for gas welding	—	15,805	7,263	5,829	5,471
Benzine cutters	—	5,800	5,834	1,908	3,223

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[1] The aggregate capacity of all transformers produced in 1913 amounted to 96,313 KVA.

Table 9

Production of Equipment for the Mining and Metallurgical Industries

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
A. Mining Equipment						
Coal-cutting machines, heavy type	Units	—	244	360	362	423
Coal-cutting machines, light type	"	—	54	12	126	101
Teeth for coal-cutting machines	Tons	—	606.9	461.0	512.0	448.0
Mining combines	Units	—	—	2	2	10
Conveyor frames	Tons	—	6,211.0	5,786.0	7,806.0	no data
Electric lifting winches	Units	20	203	549	576	no data
Electric haulage winches	"	2	123	199	155	134
Scraper winches	"	101	845	734	1,025	900
Column winches	"	—	730	431	417	611
Electric locomotives, mining type	"	—	87	245	161	220
Mine ventilators	"	—	212	177	89	70
Perforators	"	327	482	93	321	328
Miners' safety lamps, flame	"	46,304	160,546	124,000	223,779	no data
Miners' safety lamps, electric	"	—	28,057	34,611	2,693	55,516
B. Equipment for the Metallurgical Industry						
Rolling mills	Tons	—	3,656.8	6,505.0	8,455.0	21,790.0
Electric furnaces	Units	2	94	85	88	90
Desintegrators	"	—	11	3	7	7
Grizzly screens (for coke)	"	—	3	27	11	6
Brozius guns	"	—	—	12	17	4
Slag ladle cars	"	—	4	40	43	31
"Direct metal" ladle cars	"	—	—	34	35	25

Table 10

Production of Woodworking Equipment

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Sawmill frames	—	134	354	348	397
Band saws	9	458	582	522	609
Circular saws	—	584	526	662	no data
Balance saws	—	128	130	140	170
Pendulum saws	—	371	358	305	275
Cross-cut saws (three-saw)	—	—	42	50	15
Cutting-off machines	12	82	32	104	101
Sleeper-cutting machines	—	495	346	923	no data
Turning lathes	160	529	457	753	242
Planers	—	388	497	558	685
Drilling machines	—	1,021	1,669	1,499	529
Milling machines	—	381	185	328	253
Jointing machines	137	587	589	513	548
Deal and strip cutting machines	—	29	140	80	60

Table 11

Production of Textile Machinery

Description	1932	1933	1934	1935
A	1	2	3	4
Bale-opening machinery	15	39	24	19
Scutching cylinders for rag and cottonized fiber	—	60	33	no data
Snipping machines (Checker type)	6	24	7	10
Snipping machines (Willow type)	16	29	11	no data
Automatic feeders	11	59	40	63
Openers	—	21	6	15
Scutching machines ("American" type)	9	62	17	16
Carding machines: cotton	—	181	428	837
„ „ flax (Heckling)	9	24	34	27
„ „ wool	6	21	62	55
„ „ cottonized fiber	90	53	65	13
Spreading machines	15	89	80	85
Water frames, total	39	330	488	646
Water spinning frames	—	167	397	no data
Water doubling frames	39	163	91	no data
Warping machines	18	22	7	23
Looms, total	300	1,928	2,118	3,687
Looms, cotton	90	1,599	1,675	no data
„ for wool	91	127	153	no data
„ for other textile fibers	119	202	290	no data
Knitting machines	1,806	2,555	2,761	no data

Table 12

Production of Printing Machinery [1]

Description	1932	1933	1934
A	1	2	3
Typesetting machines, linotype	2	29	79
Presses, rotary	1	8	38
Presses, flat-bed	—	80	66
Crucible machines, "American" type	2	406	947
Crucible machines, "Boston" type	16	372	744
Paper-cutting machines	—	6	52
Book-stitching machines	173	57	47

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[1]) Prior to 1932 no printing machinery was produced except book-stitching machines, of which 90 were produced in 1931.

Table 13

Production of Railway Rolling Stock

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
A. Locomotives [1]						
Standard gauge locomotives	Units	479	827	930	1,165	1,518
a) Freight locomotives:						
Series OV (0—4—0)	„	12	—	—	—	—
„ E (0—5—0)	„	308	678	727	758	560
„ FD (1—5—1)	„	—	1	21	181	521
„ CO (1—5—0)	„	—	—	—	3	65
b) Passenger locomotives:						
Series M (2—4—0)	„	21 [2]	—	—	—	—
„ SU (1—3—1)	„	138	147	181	221	370
„ IS (1—4—2)	„	—	1	1	2	2
Tank locomotives, standard gauge	„	98	63	65	75	109
Narrow gauge locomotives	„	3	52	19	86	161
Electric locomotives, standard gauge	„	—	1	17	19	34
Electric locomotives for factory use	„	—	48	53	30	8
Electric locomotives for mines	„	—	87	245	161	220
Gasoline shunting locomotives, standard gauge	„	—	167	493	1,059	no data
Gasoline shunting locomotives, narrow gauge	„	5	6	—	306	no data
Diesel locomotives	„	—	1	1	8	4
Self-propelled track-inspection cars	„	—	1,357	568	1,770	no data
B. Cars [3]						
I. Freight cars, in terms of 2-axle cars [4]	„	10,612	20,152	18,126	28,957	85,675
Aggregate capacity of freight cars [4]	Tons	234,077	439,184	412,226	678,225	no data
Flat cars, 2-axle	Units	1,688	6,881	7,020	11,526	50,794
Flat cars, 4-axle	„	—	—	—	30	2,555
Box-cars, 4-axle	„	2,319	—	—	—	2,869
Box-cars, 2-axle	„	3,375	20	—	—	—
Refrigerator cars, 4-axle	„	—	1,468	1,217	1,405	612
Refrigerator cars, 2-axle	„	—	1,329	—	—	—
Tank cars, 4-axle	„	422	2,571	1,825	2,476	3,839
Tank cars, 2-axle	„	67	627	832	981	2,807
Self-dumping hopper trucks, 4-axle	„	—	883	1,795	3,394	4,362
Self-dumping hopper trucks, 2-axle	„	—	1,451	—	—	—
Self-dumping gondola type trucks, 4-axle	„	—	—	300	920	1,800
II. Flat cars and gondola cars for factory use, in terms of 2-axle cars	„	256	2,386	1,976	1,617	no data
Including:						
Self-dumping dumpcar trucks, 4-axle	„	—	357	197	170	33

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[1] Production of locomotives in 1913 amounted to 664, including locomotives for factory use.

[2] Series "S" locomotives.

[3] Production of freight cars in 1913 amounted to 14,832, including cars for 'factory use'

[4] Standard gauge cars, exclusive of cars for factory use.

Table 13 (Continued)

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
Self-dumping gondola trucks, 4-axle	Units	—	—	7	21	16
III. Narrow gauge flat cars	„	—	573	1,512	2,939	no data
IV. Slag ladle cars	„	—	4	40	43	31
V. "Direct metal" ladle cars	„	—	—	34	35	25
VI. Passenger cars, in terms of 2-axle cars	„	434	2,135	2,548	2,980	1,774
Suburban service cars, 2-axle	„	130	52	—	—	—
Long distance cars, 2 axle	„	210	95	—	—	—
Long distance cars, 4-axle	„	47	865	1,190	1,409	786
Including: Upholstered ("Soft") cars	„	—	7	52	105	165
Dining cars, 4-axle	„	—	100	50	34	16
VII. Cars for electric railways	„	—	29	34	52	85
Including: Self-propelled cars	„	—	9	12	16	28
VIII. Street cars (trams)	„	414	984	951	520	no data
Including: Self-propelled cars	„	229	563	537	203	no data
Trailing cars	„	185	421	414	307	no data
IX. Subway (underground) cars	„	—	—	—	10	87

Table 14

Production of Motor Vehicles

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Motor trucks [1]	**671**	**23,845**	**39,465**	**55,362**	**77,666**
1.5 ton capacity [2]	580	7,477	16,477	32,186	44,626
2.5 „ „	—	15,149	20,005	—	—
3 „ „	—	—	891	19.935	28,990
4 „ „	—	—	20	700	1,760
5 „ „	91	1,183	1,994	2,450	2,271
8 „ „ (3-axle)	—	36	78	60	15
Other	—	—	—	31	4
Total number of motor trucks equipped with motors of foreign construction	91	496	—	—	—
Including: Motor trucks assembled from imported parts	—	1,207	—	—	—
Automobiles	—	**34**	**10,259**	**17,110**	**18,954**
Automobiles assembled from imported parts	—	326	—	—	—
Fire engine trucks [3]	—	**513**	**268**	**761**	**801**
1.5 ton capacity	—	44	—	570	564
2.5 „ „	—	469	267	—	—
3.0 „ „	—	—	1	191	237

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[1] Including chassis for motor buses and fire engines.

[2] Prior to 1931 production of the "Stalin" Plant "AF" type of automobile.

[3] Production of chassis for fire engine trucks included in total production of motor trucks

Table 15

Production of Tractors

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
Total Tractors						
Aggregate motor capacity	**H. P.**	**30,150**	**1,505,560**	**2,376,080**	**3,134,380**	**3,911,040**
Aggregate drawbar capacity	„	**15.546**	**755,532**	**1,220,031**	**1,751.866**	**2,325.689**
Total number	**Units**	**1,272**	**50,640**	**78,138**	**94,452**	**113,566**
A. Wheel Tractors						
Aggregate motor capacity	H. P.	22,300	1,428,060	2,148,170	2,474,000	2,628,230
Aggregate drawbar capacity	„	11,150	714,030	1,074,085	1,237,000	1,314,115
Total number	Units	1,115	48,437	71,625	83,360	91,736
Including:						
10—20 h. p.	„	1,115	2,505	58	2,680[1]	12,385[1]
15—30 h. p.	„	—	45,932	71,567	80,680	79,351
B. Caterpillar Tractors						
Aggregate motor capacity	H. P.	7,850	43,200	139,710	650,640	1,262,810
Aggregate drawbar capacity	„	4,396	24,352	101.846	509.996	1,001,574
Total number	Units	157	488	2,103	10,605	20,830
C. Traction Engines (wheel type, on rubber tires)	„	—	1,715	4,410	487	1,000

Table 16

Production of Agricultural Machinery and Implements

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
A. Tilling Implements					
Plows, tractor-drawn (in conventional plow-unit expression)	1,020	231,158	262,548	278,292	294,340
Plows, tractor-drawn:					
Moldboard plows, 2-bottom	510	6	105	306	2
„ „ 3-bottom	—	12,893	3,174	17,923	37,412
„ „ 4-bottom	—	35,716	50,746	53,852	42,945
Disk wheat plows with seeders:					
Tractor-drawn, 4-disk	—	5	258	295	—
„ „ 13-disk	—	684	2.096	302	—
„ „ 16-disk	—	10,732	8,234	—	—

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[1] Inter-plowing tractors.

Table 16 (Continued)

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Gang plows, tractor-drawn, for special purposes	—	1,083	2,588	1,902	2,627
Plows, horse-drawn 1)	1,146,490	36,612	80,305	93,429	99,062
Paring plows, tractor-drawn	394	6,713	2,176	5,075	7,529
Paring plows, horse-drawn	10,511	8,269	11,176	8,652	6,081
Gang harrows, tractor-drawn, disk type	—	15,854	10,659	4,946	3,472
Harrows, tractor-drawn, lever smoothing type	—	13		—	—
Harrows, horse-drawn	517,311	58,400	29,602	58,858	61,690
Cultivators for all-round plowing:					
Tractor-drawn	—	15,105	16,224	8,528	13,698
Horse-drawn	50,249	5,079	7,978	34,264	41,172
Inter-plowing cultivators	—	9,063	8,919	5,469	16,526
Including:					
Rotary hoes	—	667	490	906	718
Ridge-plows, horse-drawn	15 869	11,357	19,417	24,233	no data
B. Seeding and Planting Machinery					
Grain sowing machines					
Drills, tractor-drawn					
With shoe furrow openers	560	2.299	—	—	—
With disk furrow openers	1	16,888	11,868	12,098	17,715
Drills, horse-drawn 2)	57,152	19,816	19,185	27,101	33,492
Combined plows and drills, tractor-drawn	—	3.724	5,862	289	—
Combined plows and drills, horse-drawn	30,168	26	—	—	—
Corn and cotton planters	946	7,323	180	—	—
Cotton planters	—	88	13	17	2,200
Flax planters	—	55	—	223	2,438
Universal (combined) planters	—	1,706	34	120	884
Vegetable planters, horse-drawn	—	10,364	2,594	945	1,161
Clover planters, horse-drawn	—	2,755	300	181	1,106
Fertilizer distributors		1,720	554	735	584
Potato planters, tractor-drawn	—	243	167	—	—
Potato planters, horse-drawn	—	6,877	4,950	1,152	—
Weeders	16,376	75,591	37,453	14,286	16,570
C. Harvesting Machinery					
Combines (grain harvesters and threshers)	—	10,006	8,578	8,239	20,169
Beet harvesting combines	—	258	85	—	—
Wind-rowers	—	2,374	1,847	2,045	504
Self-binders, tractor-drawn	—	9,451	6.826	4,835	2,616
Self-binders, horse-drawn	500	2,891	2,317	1,001	708
Reapers, self-raking	54,671	13,760	25,621	31,733	37,068
Reapers, non-raking	62,264	11,600	17,486	46,441	50,209
Pick-ups	—	537	1,049	405	502
Potato diggers, tractor-drawn	—	501	330	31	24
Potato diggers, horse-drawn	—	14,472	5,022	754	351
Beet diggers, tractor-drawn	—	1,001	1,000	3,229	5,016

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1) Production of plows in 1913 amounted to 671.1 thousands of units.
2) Production of grain sowing machines in 1913 amounted to 67.8 thousands of units.

Table 16 (Continued)

Description	1927-28*	1932	1933	1934	1935
A	1	2	3	4	5
Cotton harvesters Pneumatic (Turman-Vacuum)	—	2,196	1,117	433	75
Flax pulling machines	—	7,810	497	1,637	2,505
Corn pickers	—	2,022	2,723	2,341	774
Hay mowers, tractor-drawn	—	15,582	2,525	2,029	5,945
Hay mowers, horse-drawn	57,140	39,365	60,346	62,151	70,005
Rakers, horse-drawn	—	24,364	45,638	45,300	51,573
D. Threshing and Sorting Machinery					
Grain threshers, tractor-driven	4,463	16,013	12,891	13,115	12,819
Grain threshers, horse-driven 1)	49,891	2	17	4,161	6,501
Rice threshers, tractor-driven	—	82	82	113	no data
Grain grading machines	—	3,289	—	1,153	2,861
Potato grading machines	—	2,295	1,077	1,490	no data
E. Machines for Preparing Feeds					
Feed grinders, crushers and cutters	—	1,180	2,607	3,041	no data

Table 17

Production of Equipment for the Communications System

Description	In terms of:	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5
Telegraph Apparatus:						
Bodeau system	Units	19	117	141	160	184
Wheatstone system	"	—	120	122	117	130
Shorin system	"	—	630	550	534	445
Siemens system	"	—	15	28	17	—
Tremle system	"	—	213	624	1,575	1,180
Morse system	"	—	4	126	406	520
Telephone apparatus	"	58,499	234,462	232,911	240,988	258,338
For hand-operated exchange	"	58,494	174,791	185,473	185,292	198,945
For automatic exchange	"	5	59,671	47,438	55,696	59,393
Switchboards, hand-operated	Lines	24,461	190,295	151,288	135,152	212,610
Automatic exchanges, large	"	22,033	94,040	44,088	63,060	129,762
Automatic exchanges, small	"	—	6,430	5,946	6,664	6,246
Fire alarm apparatus	Thousands of rubles in prices of 1926-27	176.0	1,128.3	2,229.0	2,933.0	no data

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1) Production of grain threshers in 1913 amounted to 71.4 thousands of units.

Table 18

Production of Building and Road-Building Machinery

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Power shovels (excavators)	—	85	116	276	452
Including:					
Single-bucket	—	14	49	174	267
Multiple-bucket	—	71	67	102	185
Stone-crushers	63	1,642	1,351	1,196	no data
Concrete mixers	25	1,104	492	435	no data
Cement-guns	—	—	131	69	50
Road graders	97	1,165	1,693	1,267	759
Including:					
Heavy type	—	10	41	44	193
Medium weight type	10	195	143	94	1
Light type	87	960	1,509	1,129	555
Ditch digging machines	39	444	397	255	199
Road-rooters	—	44	140	10	40
Road-drags, horse-drawn	144	—	1,653	984	—
Trench drags	—	1,062	1,461	409	—
Road rollers	—	315	463	673	1,218
Including:					
Trailing, 4-ton	—	246	330	449	868
Self-propelled, 9-11 ton	—	69	133	224	350
Stubbing machines					
Tractor-drawn	—	129	375	143	306
Horse-drawn	—	861	1,063	648	547
Hand-operated	—	131	515	409	414

Table 19

Production of Hoisting and Handling Equipment

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Overhead travelling cranes, electrical	46	460	518	312	354
Overhead travelling cranes, hand-operated	15	165	190	18	19
Portal (gantry) cranes	—	1	5	1	14
Bracket cranes	—	15	7	14	19
Railway cranes, steam-operated	—	122	151	83	112
Cranes with internal combustion engines, on rubber tires	—	—	2	54	41
Luffing cranes	—	1,461	739	344	no data
Derrick cranes	—	36	73	159	100
Telphers	—	1,215	949	1,350	1,052
Electric hoisting cranes					
Freight hoisting cranes [1]	133	350	309	204	197
Passenger hoisting cranes	22	39	64	52	55
Conveyors					
Belt	—	1,195	1,282	1,583	no data
Chain	—	544	405	390	no data
Plate	—	499	84	88	106
Worm	—	756	509	332	218
Other conveyors	—	77	51	51	no data
Equipment for cableways					
4-wheel trucks	—	569	782	639	352
2-wheel trucks	—	563	654	731	438
Escalators	—	—	—	8	7

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[1] Exclusive of hoisting cranes in mines, which are included in Table 9, page 72.

Table 20

Production of Pumps and Compressors

Description	1932	1933	1934
A	1	2	3
A. Pumps, power and steam	34,684	28,734	39,843
Reciprocating, power-driven	4,957	4,021	2,001
Reciprocating, steam	481	1,644	3,304
Centrifugal	29,246	23,069	34,538
B. Compressors	581	962	1,794
Air compressors	397	704	1,537
Single-stage	77	297	1,052
Two-stage, up to 8 atm. pressure	178	251	324
Two-stage, over 8 atm. pressure	98	85	100
"Ingersoll" type	44	71	47
Turbo-compressors	—	—	14
Ammonia compressors	184	258	257
Including:			
Compressors with capacity of 40,000 calories per hour, and over	82	65	100
C. Vacuum-pumps	17	228	367

Table 21

Production of Control and Measuring Instruments, 1932-1934

Description	1932	1933	1934
A	1	2	3
A. Instruments for measuring area			
Theodolites	5,456	5,178	5,004
Transits	13,774	7,153	904
"Kipregels" (clinometers)	7,796	2,812	5,622
B. Precision weighing instruments			
Balances, laboratory weights and measures	80,802	62,107	74,844
C. Precision density measuring instruments			
Areometers	93,869	121,119	133.576
Petroleum areometers	10,977	14,308	29.867
Saccharimeters	8,732	13,454	9,961
Butyrometers	45,624	41,423	114,996
Spiritometers	1,118	3,819	9,274
D. Viscosity measuring apparatus			
Viscosimeters ("Engler" type)	1,215	1,147	1,065
E. Apparatus for measuring mechanical properties			
Tensile testing machines	—	15	195
Compression testing machines	—	26	51
Including: the "Gagarin" press	—	25	48
Impact testing machines	—	3	21
Hardness testing machines	166	577	1,537
Including: Brinell machine	166	80	130
Shorr scleroscope	—	253	524

Description	1932	1933	1934
A	1	2	3
F. Pressure measuring apparatus			
Pressure gauges	370,256	360,941	442,522
Manovacuum meters	1,897	1,958	547
Vacuum meters	7,513	3,131	72
Draught gauges	3,957	4,015	2,542
Barometers	9,804	3,673	3,330
Barographs	1,013	1,096	1,780
G. Flow meters			
Steam flow meters	224	558	507
Gas flow meters	—	14	96
Water meters	22,554	7,831	6,510
Oil flow meters	1,988	1,836	920
H. Apparatus for measuring rate of flow			
Anemometers	2,946	4,547	4,850
Anemographs	10	15	125
I. Temperature measuring instruments			
Thermometers, medical	1,607,218	2,070,275	2,624,790
„ veterinary	248.559	367,192	349,236
„ surgical	176,302	103,272	30,771
„ meteorological	29,295	38,286	27,468
„ for technical purposes	60,850	77,373	40,222
„ for desinfection chambers	2,653	23,391	19,395
„ resistance	3,714	2,436	2,956
Thermographs	735	1,528	2,300
Thermo-couples	24,281	22,648	25,528
J. Electric measuring instruments			
Watt-hour meters	147,344	142,834	95,540
Galvanometers	12,432	13,042	12,422
Voltmeters	127,167	136.376	93,755
Ammeters	254,851	253,022	201,881
K. Apparatus for measuring chemical properties			
Gas analyzers, electrical	277	905	1,015
Gas analyzers, chemical	10,448	10,226	3,772
Apparatus for determining the sulphur and carbon content in ferrous metals	678	1,859	227
Apparatus for determining water content in oil products	719	1,533	5
Apparatus for air and water analyses	207	1,533	1,592
L. Light measuring instruments			
Heliographs	4	181	—
M. Other control and measuring apparatus			
Speedometers	15,715	42,043	97,914
Psychrometers	7,553	3,597	3,399
Hygrometers	2,547	3,049	3,501
Hygrographs	596	1,522	2,019

Table 22

Production of Articles for Home and General Use, Including Calculating Machines and Typewriters

Description	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Combination calculating machines and typewriters	—	17	472	1,667	2,660
Calculating machines	5,209	41,363	54,535	64,584	59,802
Typewriters	—	1,442	4,021	6,450	9,661
Sewing machines—total [1]	285,604	327,636	281,920	277,444	420,382
Including: Machines for factory use	—	8,822	16,086	16,580	17,554
Sound-recording apparatus	—	1	2,387	4,624	no data
Motion picture (cinema) apparatus, stationary	949	1,354	1,250	679	100
Motion picture (cinema) apparatus, portable	2,206	8,054	2,707	2,836	no data
Sound motion picture apparatus	—	633	1,251	999	no data
Photo cameras	—	29,596	115,350	168,603	150,659
Microscopes	246	9,898	13,891	19,422	16,076
Opera and field glasses	—	15.063	10,631	13.739	42,548
Bicycles	10,847	128,415	132,429	274,533	322,061
Motor cycles	—	112	119	365	1,202
Watches	—	64,555	95,470	127,933	192,213
"Khodiki" (special type of small household clock)	—	3,115,380	3,490,686	3,720,358	3,721,414
Alarm clocks	—	329,971	439,899	432,756	440,601
Table clocks	—	43,623	59,913	75,522	93,167
Electric clocks	—	28,598	28,579	15,681	17,862
Gramophones	—	57,749	99,259	204,839	284,697
Electric lamps (thous. units) [2]	13,725.2	54,199.1	69,526.3	83,637	100,030
Vacuum lamps (thous. units)	10,251.6	24 022.7	32,113.1	40,163	48,713
Gas filled lamps (thous. units)	3,473.6	18,465.5	20,805.8	24,806	32,643
Lamps for special purposes (thous. units)	—	11,710.9	16,607.4	18,668	19,674
X-ray tubes	—	8,184	7,443	11,858	15,091

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[1] Prior to 1931 estimated by production of working parts of sewing machines.
[2] Production of electric lamps in 1913 amounted to 2,859 thousands of units.

Mechanization of Molding and Pouring in

Branches of Industry	Total cast—iron output [1] (tons)		Cast-iron output in enterprises reporting [1] (tons)	
	1933	1934	1933	1934
A	1	2	3	4
Metal working industry	1,408,749	1,742,693	1,037,656	1,260,691
Construction of machinery	1,014,174	1,232,480	849,216	1,031,215
Including production of:				
Boiler equipment	14,019	18,289	14,019	17,721
Prime movers	70,862	85,435	67,794	79,298
Electric power equipment	31,351	32,314	31,005	31,964
Hoisting and handling equipment	26,882	33,297	19,261	23,942
Pumps and compressors	22,043	22,722	20,908	20,937
Metal - cutting and metal pressing machinery	26,280	29,754	18,007	19,865
Equipment for the mining, metallurgical and chemical industries	90,431	115,870	79,138	103,742
Equipment for the textile, knitting, needle and boot and shoe industries	21,548	21,750	14,440	14,711
Equipment for the food industry	28,103	35,293	25,965	32,488
Equipment for building construction and road-building	23,868	28,454	21,817	26,097
Agricultural machinery and implements	145,023	155,747	120,991	127,375
Tractors	171,792	215,195	171,792	215,195
Locomotives and railroad cars	56,650	65,772	53,696	63,683
Other railroad equipment, (including spare parts for locomotives and cars)	20,541	35,744	20,151	35,058
Motor vehicles	41,682	53,957	41,652	53,957
Shipbuilding	13,363	17,815	12,511	16,362
Machine parts	87,596	110,348	40,838	47,179
Metal ware	233,135	306,387	103,609	125,186
Including:				
Structural shapes	146,230	200,636	70,158	86,860
Household ware	45,159	57,114	16,202	19,323
General repair plants and shops	160,340	202,196	84,831	104,090
Including:				
Locomotive and car repair plants	102,559	131,051	72,953	85,568

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[1] Exclusive of cast-iron pipes.

Table 23

Cast-Iron Foundries of the Metal-Working Industry

Including per cent of				Per cent of total cast-iron poured			
Machine molding		Hand molding		On the belt (by conveyor)		On foundry floor	
1933	1934	1933	1934	1933	1934	1933	1934
5	6	7	8	9	10	11	12
34.5	34.1	65.5	65.9	18.5	18.5	81.5	81.5
42.4	42.7	57.6	57.3	24.6	25.2	75.4	74.8
3.3	3.3	96.7	96.7	—	—	100.0	100.0
29.9	25.9	70.1	74.1	17.2	11.4	82.8	88.6
46.6	41.7	53.4	58.3	9.0	10.2	91.0	89.8
1.6	2.4	98.4	97.6	—	—	100.0	100.0
26.1	27.1	73.9	72.9	—	—	100.0	100.0
3.3	3.0	96.7	97.0	—	—	100.0	100.0
0.1	0.3	99.9	99.7	—	—	100.0	100.0
15.1	14.9	84.9	85.1	—	—	100.0	100.0
0.5	0.8	99.5	99.2	—	—	100.0	100.0
16.6	7.2	83.4	92.8	—	—	100.0	100.0
81.9	83.7	18.1	16.3	28.2	28.0	71.8	72.0
99.0	99.3	1.0	0.7	97.7	98.5	2.3	1.5
5.3	6.7	94.7	93.3	—	—	100.0	100.0
39.7	58.9	60.3	41.1	—	—	100.0	100.0
94.8	92.6	5.2	7.4	54.0	57.8	46.0	42.2
—	—	100.0	100.0	—	—	100.0	100.0
26.5	22.4	73.5	77.6	—	—	100.0	100.0
17.3	16.6	82.7	83.4	2.5	2.6	97.5	97.4
19.5	19.0	80.5	81.0	3.6	3.7	96.4	96.3
24.2	12.4	75.8	87.6	0.5	0.5	99.5	99.5
6.5	5.3	93.5	94.7	—	—	100.0	100.0
9.0	7.3	91.0	92.7	—	—	100.0	100.0

Table 24

Mechanization of Molding and Pouring in Steel-Shaping Mills of the Machine-Building Industry

Branches of Industry	Total steel-casting output (tons)		Steel-casting output in enterprises reporting (tons)		Including per cent of				Per cent of total steel-casting poured			
					Machine molding		Hand molding		On the belt (by conveyor)		On foundry floor	
	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934
A	1	2	3	4	5	6	7	8	9	10	11	12
Machine-building	155,805	240,778	153,486	237,789	10.9	18.1	89.1	81.9	4.6	10.8	95.4	89.2
Including:												
Enterprises using machine molding	87,783	139,101	87,783	139,101	19.3	31.4	80.7	68.6	8.1	18.7	91.9	81.3
Agricultural machinery and implements	13,422	12,930	13,422	12,930	78.2	74.1	21.8	25.9	25.1	19.8	74.9	80.2
Tractors	3,117	15,075	3,117	15,075	99.1	99.4	0.9	0.6	99.1	99.4	0.9	0.6
Locomotives and railroad cars	45,791	66,887	45,791	66,887	4.1	14.0	95.9	86.0	—	—	100.0	100.0
Other railroad equipment (including spare parts for locomotives and cars)	5,379	14,444	5,379	14,444	12.2	58.1	87.8	41.9	12.2	58.1	87.8	41.9

Table 25

Cast-Iron Distributed According to Weight: By Branches of the Metal-Working Industry

Branches of Industry	Total cast-iron output 1) (thous. tons)		Cast-iron output in enterprises reporting 1) (thous. tons)		Casting distributed according to weight (in kg.)											
					Under 20		21—100		101—500		501—1,000		1,001—5,000		Over 5,000	
					Per cent of total											
	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Metal-working industry	1,408.7	1,742.7	1,011.4	1,228.2	46.3	44.5	25.8	27.8	12.4	13.2	6.7	6.4	7.3	7.2	1.5	0.9
Construction of machinery	1,014.2	1,232.5	837,8	1,018.9	41.0	39.7	25.0	25.6	14.0	15.4	8.8	8.6	9.2	9.5	2.0	1.2
Including production of:																
Boiler equipment	14.0	18.3	14.0	17.1	31.4	30.9	23 5	23.5	33.0	34.8	3.4	6.1	5.3	3.5	3.4	1.2
Prime movers	70.9	85.4	66.5	85.4	35.0	34.6	17.3	15 3	15.4	16.6	17.3	22.9	11.0	8.3	4.0	2.3
Electric power equipment	31.4	32.3	29.7	30.4	50.9	56.7	27 4	26.5	15.0	9.6	1.6	2.2	5.1	5.0	—	—
Hoisting and handling ehuipment	26.9	33.3	19.2	23 8	27.4	24.7	36.5	39.3	12.4	13.5	14.9	10.4	8.8	11.6	—	0.5
Pumps and compressors	22.0	22.7	20.9	21.0	25.6	29.2	35.3	34.2	20.6	17.1	11.5	11.5	5.7	6.8	1.3	1.2
Metal-cutting and metal pressing machinery	26.3	29.8	17.1	17.7	43.2	32.7	25.4	27.5	15 0	32.6	15.3	5.5	1.1	1.7	—	—
Equipment for the mining, metallurgical and chemical industries	90 4	115.9	78.5	103.8	6.2	6.4	19.4	16.1	17.0	21.6	13.5	18.5	40.1	34.9	3.8	2.5
Equipment for the textile, knitting, needle and boot and shoe industries	21.5	21.8	14.4	14 6	54.0	52.1	17.1	23.7	16.7	16.1	6.4	6.1	5.7	7.7	0.1	0.3
Equipment for the food industry	28.1	35.3	24 6	31.5	19.2	11.0	25.5	18.2	9.4	25.1	25 1	16.5	18.2	27.1	2.6	2.1
Equipment for building construction and road-building	23.9	28.5	23 0	25.0	21.4	21.4	17.5	16.9	18.5	18.6	9.3	10.8	33.3	32.2	—	0.1
Agricultural machinery and implements	145.0	115.7	115.6	119.7	76 8	67.1	19.3	28.5	2.2	3.3	1.6	0.9	0.1	0.2	0.0	0.0
Tractors	171.8	215.2	171.8	215.2	46.6	49.6	35.5	30.3	17.9	20.1	—	—	—	—	—	—
Locomotives and railroad cars	56.7	65.8	56.2	62.9	19.7	20.1	13.8	16.7	18.1	19.8	23 6	21.4	13.8	16.1	11.0	5.9
Other railroad equipments (including spare parts for locomotives and cars)	20.5	35.7	20.2	35.1	63.8	52 3	35.8	46.9	0.4	0.8	—	—	—	—	—	—
Motor vehicles	41.7	54.0	41.7	54.0	39.6	42.2	57.1	53.6	3 3	4.2	—	—	—	—	—	—
Shipbuilding	13.4	17.8	11.5	16.7	13.1	17.7	38.1	48.5	16 8	11 6	13.4	2.4	18.5	19.5	0.1	0.3
Machine parts	87.6	110.3	37.8	45.1	47.1	41.4	18.8	21.1	20.2	17.3	7.0	8.3	6.6	11.0	0.3	0.9
Metal ware	233.1	306.4	100.7	117.9	61.4	53.5	29.4	37.9	5.8	6.6	0.5	0.4	2.9	1.5	—	0.1
Including: Structural shapes	146.2	200 6	67.3	79.7	54.9	47.4	40.4	49.0	4.7	3.6	—	—	—	—	—	—
Household ware	45.2	57.1	16.1	19.2	88.2	80.8	6.6	9.8	5.2	9.4	—	—	—	—	—	—
General repair plants and shops	160.3	202.2	72.9	91.2	59.6	62.5	26.3	25.6	11.4	9.5	1.6	1.4	1.1	1.0	—	—
Including: Locomotive and car repair plants	102.6	131.1	61.7	72.8	66.0	68.7	22.3	22.2	10.2	7.5	0.8	0.7	0 7	0.9	—	—

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1) Exclusive of cast-iron pipes.

Table 26

Steel-Casting Distributed According to Weight: By Branches of the Machine-Building Industry

Branches of Industry	Total steel-casting output (tons)		Steel-casting output in enterprises reporting (tons)		Steel-casting distributed according to weight (in kg)											
					Under 20		21—100		101—500		501—1,000		1,001—5,000		Over 5,000	
					Per cent of total											
	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Machine-building	155,805	240,778	141,014	209,971	21.3	16.0	19.2	22.2	29.1	30.0	14.7	15.5	12.2	12.0	3.5	4.2
Including production of:																
Boiler equipment	650	672	650	672	17.1	12.1	34.2	56.8	43.7	29.5	2.1	1.6	2.9	—	—	—
Prime movers	10,256	10,490	10.256	10.490	5.6	4.8	15.3	16.3	35.8	42.8	11.9	13.5	26.6	22.1	4.8	0.5
Hoisting and handling equipment	1,927	3,617	1,896	2,279	26.7	30.1	61.0	52.7	8.4	14.8	3.9	2.4	—	—	—	—
Equipment for the mining, metallurgical and chemical industries	37,917	60,872	26,822	43,430	21.2	15.7	14.9	13.2	30.0	31.8	16.1	16.4	10.3	12.4	7.5	10.5
Equipment for the food industry	6,010	10,166	5,668	9,657	4.9	5.8	28.4	20.6	29.4	30.2	21.4	22.9	14.3	17.1	1.8	3.4
Equipment for building construction and road-building	3,169	4,109	3,169	4,109	0.1	0.1	3.7	3.6	45.4	46.3	14.0	14.6	25.1	23.2	11.7	12.2
Agricultural machinery and implements	13,422	12.930	13,422	12,930	76.5	81.5	22.2	15.9	0.7	1.8	0.3	0.3	0.3	0.5	—	—
Tractors	3,117	15,075	3,117	15,075	—	—	82.5	83.6	17.5	16.4	—	—	—	—	—	—
Locomotives and railroad cars	45,791	66,887	45,791	66,887	15.2	12.4	15.8	15.4	35.3	33.8	17.4	19.3	14.8	17.8	1.5	1.3
Other railroad equipment (including spare parts for locomotives and cars)	5,379	14,444	2,318	2,823	13.6	13.6	27.4	23.1	27.8	31.9	9.9	10.0	14.6	14.3	6.7	7.1
Motor vehicles	656	2,227	656	2,227	14.5	20.3	25.9	57.6	59.6	22.1	—	—	—	—	—	—
Shipbuilding	5,890	7,090	5,890	7,090	7.1	6.8	11.8	12.7	45.9	60.1	7.7	7.7	27.5	12.8	—	—
Special equipment for other branches of transport	—	120	—	120	—	75.0	—	25.0	—	—	—	—	—	—	—	—
Machine parts	1,285	2,417	1.285	2,417	70.0	49.6	30.0	50.4	—	—	—	—	—	—	—	—

Mechanization of Assembling in the Machine-Building Industry, as of 1934

Branches of industry	Total gross output, in prices of 1926-27 (millions of rubles)	Gross output in prices of 1926-27 of enterprises reporting (millions of rubles)	Including output of finished articles (millions of rubles)	Articles assembled by continuous-flow method		Articles assembled without the use of the continous-flow method	Including:	
				Total	Including articles assembled by mechanized continuous-flow method		Serial assembling	Individual assembling
				Per csnt of total				
A	1	2	3	4	5	6	7	8
Machine-building	9,449.1	6,098.5	4,570.2	46.9	22.5	53.1	30.6	22.5
Including production of:								
Boiler equipment	68.9	52.3	48.6	—	—	100.0	24.0	76.0
Prime movers	685.5	592.6	382.8	4.9	4.9	95,1	60.6	34.5
Electric power equipment	781.4	682.6	644.8	35.0	17.1	65.0	42.6	22.4
Hoisting and handling equipment	179.4	135.0	117.7	—	—	100.0	46.5	53.5
Pumps and compressors	120.2	100.2	77.9	—	—	100.0	61.6	38.4
Control and measuring instruments	264.9	87.0	70.3	19.5	7.8	80.5	53.6	26.9
Metal cutting and metal pressing machinery	172.8	105.3	77.2	11.8	11.8	88.2	65.9	22.3
Equipment for the mining, metallurgical and chemical industries	452.8	371.4	182.1	4.1	—	95.9	51.3	44.6
Equipment for the textile, knitting, needle and boot and shoe industries	121.8	54.8	37.2	23.5	—	76.5	43.8	32.7
Equipment for the food industry	160.2	65.8	54.2	7.0	—	93.0	50.6	42.4
Other special equipment	176.1	45.6	38.4	0.5	—	99.5	36.9	62.6
Equipment for building construction and road building	97.1	51.6	47.9	42.2	—	57.8	33.4	24.4
Agricultural machinery and implements	373.2	349.5	252.1	70.8	51.5	29.2	24.9	4.3
Tractors	675.7	675.7	542.5	99.8	99.8	0.2	—	0.2
Locomotives and railroad cars	759.3	579.6	307.9	74,7	28.5	25.3	14.1	11.2
Motor vehicles	810.1	722.3	584.8	94.8	85.2	5.2	4.2	1.0
Shipbuilding	609.1	302.5	192.3	1.3	—	98.7	33.4	65.3
Special equipment for other branches of transport	502.1	257.2	220.7	31.7	—	68.3	59.3	9.0
Equipment for the communications-system	272.2	198.0	172.2	30.6	18.6	69.4	44.5	24.9
Special mechanical articles for the home and general use	147.4	42.0	38.1	86.5	—	13.5	2.3	11.2
Individual radio-receiving sets	84.6	70.4	62.1	46.3	—	53.7	52.8	0.9
Medical apparatus and instruments	37.2	21.5	19.9	—	—	100.0	100.0	—

Territorial Distribution of the

Republics, Regions and Territories	Total metal-working industry				
	Number of enterprises	Fixed capital, as at end of year (thous. of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of year (kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (thous. of rubles)
A	1	2	3	4	5
U. S. S. R.	8,390	8,346,679	2,056,792	1,896,928	13,610,570
I. R. S. F. S. R.	6,051	6,496,758	1,528,610	1,450,961	10,737,900
Northern Territory	89	37,506	8,343	15,942	58,133
Karelian A.S.S.R.	15	20,673	4,874	2,759	12,381
Leningrad Region	591	1,332,435	370,098	269,453	2,788,978
Including Leningrad	424	1,149,684	319,714	235,269	2,594,807
Western Region	109	146,469	42,905	42,263	228,941
Kalinin Region	103	62,528	20,137	17,070	95,408
Moscow Region	1,129	1,716,137	357,766	382,632	3,611,299
Including Moscow	665	1,133,264	239,333	251,152	2,865,149
Ivanovo-Region	206	226,102	48,284	55,358	441,126
Gorky Territory	255	584,388	107,320	92,791	751,464
Kursk Region	131	29,501	6,118	13,751	35,916
Voronezh Region	229	151,249	29,176	44,684	184,261
Sverdlovsk Region	278	424,225	104,352	68,443	351,772
Cheliabinsk Region	179	279,536	80,968	50,915	292,050
Kirov Territory	87	155,334	36,137	33,821	152,253
Omsk Region	122	34,033	9,618	14,767	61,679
Bashkir A.S.S.R.	78	28,147	6,654	8,033	44,046
Tatar A.S.S.R.	64	51,609	6,368	8,266	41,869
Kuibyshev Territory	229	148,980	36,002	40,392	161,875
Orenburg Region	102	24,143	4,493	9,614	25,853
Stalingrad Territory	181	249,120	77,699	40,491	389,716
Saratov Territory	261	99,673	18,902	24,882	120,510

Metal-Working Industry, as of 1934

Including:									
Construction of machinery					Production of metal wares				
Number of enterprises	Fixed capital as at end of year (thous. of rubles)	Capacity of prime movers and electric motors driving operating machinery as at end of year (kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (thous. of rubles)	Number of enterprises	Fixed capital, as at end of year (thous. of rubles)	Capacity of prime movers and electric motors driving operating machinery as at end of year (kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (thous. of rubles)
6	7	8	9	10	11	12	13	14	15
1,319	**5,646,283**	**1,432,001**	**991,825**	**9,449,148**	**1,656**	**926,459**	**225,254**	**265,628**	**2,062,053**
938	4,443,019	1,077,181	771,225	7,509,784	1,252	814,115	188,980	227,291	1,772,441
26	6,089	1,456	2,964	13,185	13	1,440	313	494	2,000
4	10,251	3,987	1,558	8,910	1	28	—	15	36
166	969,533	502,703	177,069	2,021,901	175	210,316	41,232	51,678	578,883
136	882,791	265,410	167,505	1,918,713	143	149,899	33,911	39,280	502,777
21	109,875	35,649	28,135	185,037	19	9,396	1,964	3,851	19,138
14	28.996	6.949	8,388	69,140	31	4,409	504	2,060	6,450
292	1,220,411	253.718	241,892	2,624,172	372	281,985	61,904	78,340	698,281
196	779,305	163,929	155,404	2,054,589	202	192,438	42,526	51,742	567,728
50	185,494	39,897	41,388	393,420	51	6,829	1,624	2,856	11,344
37	492,325	88,176	56,949	614,878	134	44,145	9,301	18,584	85,432
16	16,248	2,593	2,724	16,904	4	139	43	154	583
22	65,194	9,531	10,206	74,649	22	4,181	746	1,687	10,444
51	340,559	81,418	41,579	243,481	71	40,142	11,510	11,362	55,871
11	188,104	53,439	21,593	188,069	33	70,598	19,893	15,846	74,349
1)	1)	1)	1)	1)	1)	1)	1)	1)	1)
15	17,856	4,058	3,949	26,523	16	642	268	656	2,399
9	2,845	399	996	6,084	14	10,069	3,011	2,085	25,081
13	34,608	2,892	3,637	27,655	14	6,895	1,078	1,129	5,580
1)	1)	1)	1)	1)	1)	1)	1)	1)	1)
3	2,353	208	734	4,742	5	420	77	295	1,313
18	199,895	68,333	24,136	341,143	18	2,296	1,303	689	4,943
23	47,322	9,529	7,316	67,943	16	8,089	2,605	2,061	14,203

Republics, Regions and Territories	Total metal-working industry				
	Number of enterprises	Fixed capital, as at end of year (thous. of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of year (kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (thous. of rubles)
A	1	2	3	4	5
Azov-Black Sea Territory	579	296,985	68,661	86,174	408,490
Northern Caucasus Territory	146	43,050	13,404	14,443	63,241
Crimean A.S.S.R.	115	40,492	12,876	11.157	58,629
Kazakhstan A.S.S.R.	179	43,108	7.232	22,235	39,397
Karà-Kalpak A.S.S.R.	1	115	11	70	231
Kirghiz A.S.S.R.	36	4,980	707	1,793	6,990
West Siberian Territory	236	62,759	17,521	28,468	82,600
Krasnoyarsk Territory	86	28,829	5,501	10,528	32,752
East Siberian Territory	96	87,226	11,455	22,288	61,987
Far Eastern Territory	135	87,116	15,028	17,438	133,560
II. Ukrainian S. S. R.	1,759	1,574,213	467,822	373,626	2,538,524
Vinnitsa Region	134	16,793	3,946	9,478	36,266
Dniepropetrovsk Region	290	240,456	67,575	66.773	433,726
Donetz Region	291	419,159	136,582	84,684	417,573
Kiev Region	283	150,386	38,381	42,747	275,620
Odessa Region	318	243,799	63,141	58,604	397,901
Kharkov Region	361	486,863	151,954	102,329	944,990
Chernigov Region	53	23,015	5,684	7,562	27,156
Moldavian A.S.S.R.	29	2,742	559	1,499	5,292
III. White Russian S. S. R.	157	66,884	14,851	19,376	94,334
IV. Transcaucasian S. F. S. R.	237	125,999	32,210	32,940	162,196
Georgian S.S.R.	108	36,781	8,238	10,841	60.602
Armenian S.S.R.	32	8,684	1,863	2.155	9,107
Azerbaidjan S.S.R.	97	80,534	22,109	19,944	92,487
V. Uzbek S. S. R.	129	64,417	10,722	13,563	55,285
VI. Turkmenian S. S. R.	48	14,533	2,012	5,937	19,109
VII. Tadjik S. S. R.	9	3,875	565	525	3,222

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[1] For Kirov Territory, Kuibyshev Territory and Crimean A. S. S. R. there are no separate

Including:									
Construction of machinery					Production of metal wares				
Number of enterprises	Fixed capital, as at end of year (thous. of rubles)	Capacity of prime movers and electric motors driving operating machinery as at end of year (kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (thous. of rubles)	Number of enterprises	Fixed capital, as at end of year (thous. of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of year (kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (thous. of rubles)
6	7	8	9	10	11	12	13	14	15
57	158,984	36,061	33,675	218,094	75	47,054	12,349	12,192	72,033
6	13,143	4,181	2,247	19,965	9	947	253	309	2,304
1)	1)	1)	1)	1)	1)	1)	1)	1)	1)
1	193	—	145	496	11	2,310	326	779	3,707
—	—	—	—	—	—	—	—	—	—
1	80	49	34	87	—	—	—	—	—
14	15,582	3,890	3,009	17,061	34	4,378	1,202	2,601	11,435
6	1,555	351	562	3,401	10	5,924	62	227	1,102
15	40,614	5,090	3,826	18,476	9	1,859	229	747	3,967
16	41,065	7,455	5,602	75,317	15	2,622	471	842	6,291
313	1,119,976	329,879	203.645	1,815.795	321	100,059	32,980	33,707	261,061
12	5,711	1,115	2,217	18,454	17	464	170	484	1,775
57	107,025	29,237	28,634	264,863	64	25,872	9,009	7,473	52,937
40	331,630	99,079	44,840	264,978	46	26,194	10,683	8,820	52,732
63	96,377	22.943	20,654	164,736	60	14,910	4,422	4,343	48,423
61	181,032	50,413	38,308	293,730	53	18,166	4,715	6,471	60,562
68	393,367	125.803	67,125	798.168	66	13,525	3,769	5,548	42,780
8	4,081	1.201	1,649	8,941	9	571	158	330	945
4	753	88	218	1,925	6	357	44	238	907
30	20,173	5,251	5,891	41.255	25	7,191	1,984	1,847	12,349
32	38,534	16,209	8,678	65,574	42	4,643	1,229	2,067	14.474
9	6,433	2,208	1,302	10,824	15	2,512	553	756	6,440
3	2,306	690	275	2,621	4	160	67	109	611
20	29,795	13,311	7,101	52,129	23	1,971	609	1,202	7,423
6	24.581	3,481	2,386	16,740	13	379	61	584	1,245
—	—	—	—	—	1	10	—	32	190
—	—	—	—	—	2	62	20	100	293

data on "Construction of machinery" and "Production of metal wares".

3. ELECTRIC GENERATING STATIONS

Table 1

Summary for Electric Power Plants

Year	Fixed capital, as at end of year (millions of rubles)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3
1926	479.3	19,468	115
1927	592.6	23,408	144
1928	706.7	26,655	181
1929	833.5	31,206	243
1930	1,186.2	34,632	366
1931	1,352.8	44,821	513
1932	1,922.7	53,810	681
1933	2,819.1	63,550	854
1934	3,497.8	76,745	1,125

Table 2

Production Costs in the Electric Power Supply Industry [1]

(Per cent of total)

Year	Fuel and supplies	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6
1932	43.3	15.1	22.2	5.2	14.2	100.0
1934	41.4	15.5	24.1	5.9	13.1	100.0

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[1] Stations controlled by the Main Power Board.

Table 3

Capacity of Electric Generating Stations [1]

(In thousands of kw)

Type of Stations	1913	1916	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935 [2]
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
All electric generating stations . .	**1,098**	**1,192**	**1,247**	**1,279**	**1,308**	**1,397**	**1,586**	**1,698**	**1,905**	**2,296**	**2,876**	**3,972**	**4,677**	**5.583[3]**	**6,287[3]**	**6,880[3]**
I. District stations	177	245	277	287	307	367	456	525	626	938	1,419	2,376	3,020	3,708	4,146	4,540
II. Local stations	151	170	175	191	195	210	235	245	279	311	333	328	243	279	315	360
III. Factory stations	750	[4]	[4]	[4]	[4]	[4]	815	843	930	974	1,052	1,187	1,321	1,463	1,663	1,796
IV. Rural stations	—	2	6	7	10	20	24	28	29	32	38	44	53	57	72	86
V. Stations serving railways [5] . . .	20	25	39	44	46	50	56	57	41	41	34	37	40	44	48	55

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[1] As at end of year.

[2] Preliminary data.

[3] Totals for 1933-1935 include capacity of electric power stations at building sites, schools, hospitals, sanatoria, etc., previously not accounted for.

[4] To compute the total capacity for the U.S.S.R. in 1916 and 1921-25 the round figure of 750 thousand kw has been adopted, on the assumption that the capacity of factory stations remained unchanged during that period.

[5] Electric generating stations at locomotive and car repair plants of the People's Commissariat of Railway Transport included with factory station

Table 4

Output of Electric Energy [1]

(In millions of kw-hours)

Type of Stations	1913	1916	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935 [2]
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
All electric generating stations	1,945	2,575	775	1,146	1,562	2,925	3,508	4,205	5,007	6,224	8,368	10,687	13,540	16,357	21,016	25,900
I. District stations	431	729	475	630	702	935	1,190	1,543	2,001	2,786	4,541	6,474	9,217	11,499	15,274	19,500
II. Local stations	259	246	100	184	243	390	456	539	638	798	872	964	713	747	895	1,030
III. Factory stations	1,255	1,600	200	281	558	1,505	1,743	1,994	2,263	2,527	2,838	3,103	3,425	3,849	4,547	5,020
IV. Rural stations	[3]	[3]	[3]	[3]	[3]	25	30	32	35	39	47	59	74	85	104	130
V. Stations serving railways	[3]	[3]	[3]	51	59	70	89	97	70	74	70	87	111	121	132	156

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[1] See footnotes to Table 3.
[2] Preliminary data.
[3] No data.

Table 5

Output of Electric Energy by District Stations: Classified According to Source of Power

Stations Grouped According to Source of Power	Output of electric energy (in millions of kw-hours)						
	1928	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
Total	2,001.4	2,785.6	4,541.1	6,473.7	9,217.2	11,498.9	15,273.6
A. Fuel-burning stations	1,637.2	2,439.3	4,143.4	6,054.5	8,520.0	10,436.3	13,118.3
1. Stations utilizing local fuel	1,192.6	1,863.9	3,211.9	4,434.5	5,770.5	7,767.3	9,916.0
Fuel oil (Baku and Grozny stations)	370.1	432.6	564.0	632.7	713.1	834.3	1,022.9
Donetz coal (Donetz Basin stations)	105.6	329.0	815.8	1,111.4	1,441.0	1,950.2	2,585.5
Including: Anthracite culm	53.6	120.0	284.0	721.9	1,134 1	1,645.9	2,149.2
Sub-Moscow brown coal	49.8	45.9	131.2	383.0	714.9	965.0	1,346.0
Ural and Siberian coal	16.7	19.1	50.5	255.9	723.0	1,099.2	1,712.4
Peat	645.1	983 3	1,612.3	1,852.0	1,845.5	2,667.9	2,839.3
Firewood	5.3	2.5	3.3	68.0	218.6	173.8	319.4
Other kinds of local fuel	—	51.5	34.8	131.5	114.4	76.7	90.5
2. Stations utilizing non-local fuel	444.6	575.4	931.5	1,620.0	2,749.5	2,669.0	3,202.3
Fuel oil	282.5	358.4	463.7	835.5	1,425.4	1,160.7	1,177.5
Donetz coal	162.1	217.0	467.8	784.5	1,324.1	1,508.3	2,024.8
Including: Anthracite culm	—	—	6.0	138.0	298.2	406.7	577.8
B. Hydro-electric stations	364.2	346.3	397.7	419.2	697.2	1,062.6	2,155.3

Table 6

Capacity of Electric Generating Stations: By Republics, Regions and Territories

(In thousands of kw, as at end of year)

Republics, Regions and Territories	Year	Total	District stations	Municipal stations	Factory stations	Rural stations	Stations serving railways	Other stations
A	B	1	2	3	4	5	6	7
U. S. S. R.	1928	1,905.4	626 4	279.1	930 4	29.0	40.5	—
	1929	2.295.7	937.5	310.7	974.2	32.0	41.3	—
	1930	2,875.4	1,418.6	333.2	1,052.6	37.3	33.7	—
	1931	3,972.5	2.375.7	328.1	1.187 8	44.4	36.5	—
	1932	4,677.3	3,020.1	243.5	1 320.9	53 0	39.8	—
	1933	5,583.2	3,707.5	279.1	1 463.3	56.7	44.4	32.2
	1934	6.287.3	4,146.6	315.2	1,663.0	72.1	47.8	42.6
	1935 1)	6,880.0	4,540.0	360.0	1,796.0	86.0	55.0	43.0
I. R. S. F. S. R.	1933	3.588.8	2,309.2	161.3	1,019.1	42.7	30.1	26.4
	1934	4,138.4	2,631.5	204.3	1,181.6	50.9	34.9	35.2
Northern Territory	1933	40.7	16.4	1.4	21.9	0.5	0.4	0.1
	1934	46.3	2)	9.9	34.9	0.6	0.6	0.3
Karelian A.S.S.R.	1933	16.6	4.5	1.0	8.8	0.3	1.4	0.6
	1934	33.2	19.5	1.0	9.8	0.4	1.5	1.0
Leningrad Region	1933	606.6	492.4	9.1	90.6	1.3	2.0	11.2
	1934	643.3	516.4	10.7	103.4	1.4	2.2	9.2
Western Region	1933	75.5	22.0	7.1	44.0	0.4	1.5	0.5
	1934	79.5	22.0	7.1	47.9	0.5	1.6	0.4
Kalinin Region	1933	45.3	19.0	3.3	21.2	0.3	1.2	0.3
	1934	47.3	19.0	3.9	22.4	0.6	1.1	0.3
Moscow Region	1933	740.5	610.1	7.3	117.3	2.9	1.6	1.3
	1934	810.6	681.1	7.4	116.1	3.3	1.4	1.3

Ivanovo Region	1933 1934	236.7 286.2	129.3 176.5	9.8 9.5	95.2 97.3	1.4 1.7	0.8 0.9	0.2 0.3
Gorky Territory	1933 1934	275.5 280.0	204.0 204.0	2.0 2.0	67.7 71.7	1.0 1.4	0.6 0.6	0.2 0.3
Kirov Territory	1933 1934	25.7 56.7	— —	2.6 6.7	21.8 48.0	1.1 1.3	0.1 0.6	0.1 0.1
Kursk Region	1933 1934	19.7 27.0	— —	5.6 8.1	11.6 15.0	0.6 1.0	1.5 1.9	0.4 1.0
Voronezh Region	1933 1934	79.4 109.0	24.0 48.0	10.8 10.3	39.9 46.1	1.9 2.4	1.3 1.6	1.5 0.6
Sverdlovsk Region	1933 1934	344.6 384.8	199.5 223.0	1.6 1.4	139.8 156.5	1.1 1.4	1.0 1.2	1.6 1.3
Cheliabinsk Region	1933 1934	270.7 283.3	221.0 224.0	1.0 1.0	45.4 54.0	2.0 2.3	1.0 1.1	0.3 0.9
Omsk Region	1933 1934	22.6 24.3	— —	18.5 18.8	3.0 3.9	0.8 1.2	0.2 0.4	0.1 0.3
Bashkir A.S.S.R.	1933 1934	20.1 25.3	— —	5.0 8.0	14.1 15.3	0.8 1.1	0.1 0.1	0.1 0.8
Tatar A.S.S.R.	1933 1934	43.6 44.1	24.0 24.0	0.8 0.8	17.8 17.9	0.4 0.6	0.4 0.5	0.2 0.3
Kuibyshev Territory	1933 1934	78.1 79.2	15.2 15.2	6.9 6.7	52.0 52.8	2.6 2.9	1.3 1.3	0.1 0.3

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[1] Preliminary data.

[2] In 1934 district stations of the Northern Territory, formerly controlled by the Main Power Board, were transferred to the People's Commissariat of Municipal Economy (9.6 thous. kw) and the Northern Timber Administration (6.9 thous. kw). In 1934 these stations are listed under municipal and factory stations.

Table 6 (Continued)

Republics, Regions and Territories	Year	Total	District stations	Municipal stations	Factory stations	Rural stations	Stations serving railways	Other stations
A	B	1	2	3	4	5	6	7
Orenburg Region	1933	8.0	—	3.8	1.9	1.6	0.5	0.2
	1934	10.4	—	3.8	4.1	1.7	0.5	0.3
Stalingrad Territory	1933	85.4	51.0	8.8	22.9	2.1	0.5	0.1
	1934	116.8	75.0	8.7	29.8	2.5	0.6	0.2
Saratov Territory	1933	50.1	22.5	3.1	20.8	3.1	0.4	0.2
	1934	62.0	34.5	3.8	19.4	3.2	0.9	0.2
Azov-Black Sea Territory	1933	196.6	139.3	7.6	39.8	7.3	2.0	0.6
	1934	206.3	138.3	8.3	48.4	8.2	2.1	1.0
Northern Caucasus Territory	1933	57.7	32.4	7.5	12.0	2.2	2.2	1.4
	1934	79.7	47.4	9.1	15.8	3.0	2.3	2.1
Crimean A.S.S.R.	1933	25.9	11.1	1.6	11.4	0.9	0.3	0.6
	1934	28.3	11.1	1.5	12.5	1.1	0.3	1.8
Kazakhstan A.S.S.R.	1933	30.2	—	3.6	22.2	1.8	2,0	0.6
	1934	60.6	9.0	4.0	37.1	2.0	2.3	6.2
Kara-Kalpak A.S.S.R.	1933	0.1	—	0.02	0.1	—	—	0.02
	1934	0.2	—	0.1	0.1	0.03	—	0.02
Kirghiz A.S.S.R.	1933	4.9	—	1.8	3.0	0.1	—	0.01
	1934	6.7	—	2.5	3.9	0.3	—	0.03

West Siberian Territory	1933	121.9	71.5	6.4	36.0	2.7	1.7	3.6
	1934	205.7	143.5	9.3	43.8	3.0	2.2	3.9
Krasnoyarsk Territory	1933	11.0	—	3.9	5.7	0.6	0.7	0.1
	1934	23.6	—	7.8	14.1	0.7	0.7	0.3
East Siberian Territory	1933	23.0	—	7.8	13.7	0.1	1.3	0.1
	1934	38.1	—	14.6	21.2	0.3	1.8	0.2
Yakut A.S.S.R.	1933	3.0	—	0.3	2.7	—	—	0.01
	1934	3.0	—	0.3	2.7	0.02	—	—
Far Eastern Territory	1933	29.2	—	11.3	14.8	0.8	2.1	0.2
	1934	36.9	—	17.3	15.7	0.7	2.6	0.6
Ukrainian S. S. R.	1933	1,602.1	1,147.3	48.4	383.3	9.1	11.0	3.0
	1934	1,667.2	1,182.9	52.7	404.2	14.9	9.6	2.9
White Russian S. S. R.	1933	63.6	20.0	17.1	25.0	0.4	1.0	0.1
	1934	78.6	26.4	19.5	31.0	0.6	1.0	0.1
Transcaucasian S. F. S. R.	1933	272.7	218.0	28.0	20.4	3.4	1.0	1.9
	1934	340.0	278.0	27.9	26.6	4.0	1.0	2.5
Uzbek S. S. R.	1933	43.5	13.0	18.8	9.7	0.9	0.8	0.3
	1934	47.8	27.8	5.6	11.9	1.4	0.8	0.3
I. **Turkmenian S. S. R.**	1933	8.1	—	3.9	3.4	0.1	0.5	0.2
	1934	10.1	—	3.9	5.3	0.2	0.5	0.2
II. **Tadjik S. S. R.**	1933	4.4	—	1.6	2.4	0.1	—	0.3
	1934	5.2	—	1.3	2.4	0.1	—	1.4

Table 7-a

Electric Energy Balance of the U.S.S.R.: By Republics, Regions and Territories

A. Output (in millions of kw-hours)

Republics, Regions and Territories	Year	District stations	Municipal stations	Factory stations	Rural stations	Stations serving railways	Other stations	Energy from other regions	Total electric energy output
A	B	1	2	3	4	5	6	7	8
U. S. S. R.	1928	2,001.4	638.0	2,262.9	34.8	70.4	—	—	5,007.5
	1929	2,785.6	797.9	2,527.7	38.6	74.0	—	—	6,223.8
	1930	4.541.1	872.4	2,838.4	46.7	69.6	—	—	8,368.2
	1931	6,473.7	963.7	3,103.2	58.8	87.0	—	—	10,686.4
	1932	9,217.2	713.1	3.424.7	74.4	110.8	—	—	13,540.2
	1933	11,498.9	747.5	3,849.2	85.1	120.9	55.6	—	16,357.2
	1934	15.273.6	895.4	4.547.2	104.4	131.6	64.0	—	21,016.2
	1935	19,500.0	1,030.0	5,020.0	130.0	156.0	64.0	—	25,900.0
I. R. S. F. S. R.	1933	7,816.7	392.2	2,749.1	65.1	81.5	46.1	—	11,150.8
	1934	9,827.3	543.2	3,231.0	78.0	99.3	49.4	—	13,828.2
Northern Territory	1933	71.6	3.6	108.6	0.6	0.9	0.2	—	185.5
	1934	1)	43.0	152.5	0.6	1.1	0.5	—	197.7
Karelian A. S. S. R.	1933	11.5	2.4	35.8	0.4	4.4	2.4	—	56.9
	1934	31.1	2.6	40.9	0.7	4.4	1.0	—	80.7
Leningrad Region	1933	1,724.8	17.2	273.4	1.7	4.9	19.7	—	2,041.7
	1934	2,059.5	23.6	282.9	2.2	6.0	12.6	20.4	2,407.2
Western Region	1933	30.3	10.6	135.9	0.4	4.0	0.8	—	182.0
	1934	56.0	15.6	143.7	0.7	5.0	0.6	—	221.6
Kalinin Region	1933	74.3	6.7	67.1	0.4	3.3	0.4	—	152.2
	1934	83.4	7.0	82.4	0.8	3.7	0.7	—	178.0
Moscow Region	1933	2.871.0	22.6	237.5	4.2	2.6	2.7	—	3,140.6
	1934	3,356.4	24.9	283.7	4.6	3.1	2.0	—	3,674.7

Ivanovo Region	1933	467.4	14.4	237.9	2.0	1.5	0.4	46.3	769.9
	1934	574.6	15.5	250.2	2.5	2.0	0.4	55.4	900.6
Gorky Territory	1933	515.4	4.1	176.6	0.8	1.4	0.3	41.2	739.8
	1934	628.2	4.8	184.6	1.1	1.8	0.5	26.0	847.0
Kirov Territory	1933	—	8.0	69.2	1.5	0.4	0.3	—	79.4
	1934	—	19.4	79.5	1.7	1.3	0.1	—	102.0
Kursk Region	1933	—	11.8	21.5	0.8	5.5	0.4	—	40.0
	1934	—	19.4	26.8	1.0	5.7	1.8	—	54.7
Voronezh Region	1933	7.4	44.2	95.6	2.6	3.6	6.2	—	159.6
	1934	70.9	27.3	116.5	3.2	4.8	0.8	—	223.5
Sverdlovsk Region	1933	347.7	3.2	460.3	2.3	2.4	2.6	80.9	899.4
	1934	552.9	3.2	562.8	2.8	2.8	3.9	80.1	1,208.5
Cheliabinsk Region	1933	612.3	1.6	74.3	3.8	2.3	0.3	—	694.6
	1934	853.2	1.9	118.4	4.3	3.1	1.7	—	982.6
Omsk Region	1933	—	37.5	6.6	1.5	0.7	0.1	—	46.4
	1934	—	47.8	9.5	2.3	0.7	0.1	—	60.4
Bashkir A.S.S.R.	1933	—	12.9	57.1	0.8	0.2	0.1	—	71.1
	1934	—	20.5	64.1	1.3	0.3	2.6	—	88.8
Tatar A.S.S.R.	1933	55.8	1.4	31.0	0.3	1.0	0.3	—	89.8
	1934	71.6	1.5	34.8	0.5	1.3	0.4	—	110.1
Kuibyshev Territory	1933	52.4	13.3	100.0	3.2	3.4	0.2	—	172.5
	1934	64.2	14.3	119.3	4.2	3.7	0.4	—	206.1

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1) See footnote 2 to Table 6.

Table 7-a (Continued)

Republics, Regions and Territories	Year	District stations	Municipal stations	Factory stations	Rural stations	Stations serving railways	Other stations	Energy from other regions	Total electric energy output
A	B	1	2	3	4	5	6	7	8
Orenburg Region	1933	—	8.0	4.4	3.4	1.7	0.4	—	17.9
	1934	—	10.5	8.9	3.8	1.7	0.7	—	25.6
Stalingrad Territory	1933	167.4	21.8	59.9	4.1	1.2	0.2	—	254.6
	1934	230.8	27.5	61.4	4.4	1 9	0.3	—	326.3
Saratov Territory	1933	62.7	9.5	45.5	3.6	1.2	0.2	—	122.7
	1934	86.8	8.7	52.6	4.4	1.7	0.3	—	154.5
Azov-Black Sea Territory	1933	405.5	18.8	77.7	12.3	7.1	0.7	—	522.1
	1934	498.7	24.2	97.6	13.8	5.7	1.3	—	641.3
Northern Caucasus Territory	1933	143.1	20.0	30.7	4.8	6.7	2.1	—	207.4
	1934	223.8	24.2	34.4	5.4	8.6	2.1	—	298.5
Crimean A.S.S.R.	1933	38.6	2.8	63.3	1.3	0.5	0 7	—	107.2
	1934	47.5	3.3	66.0	1.6	0.7	4.9	—	124.0
Kazakhstan A.S.S.R.	1933	—	10.0	55 6	2.5	4.8	1.4	—	74.3
	1934	3.6	10.4	83.8	2.6	6.4	0.6	—	107.4
Kara-Kalpak A.S.S.R.	1933	—	0.1	0.1	—	—	0.02	—	0.2
	1934	—	0.1	0.1	0.04	—	0.04	—	0.3
Kirghiz A.S.S.R.	1933	—	5.5	6.3	0.1	—	0.01	—	11.9
	1934	—	6.7	6.5	0.2	—	0.06	—	13.5

West Siberian Territory	1933	157.5	16.0	115.5	3.8	4.9	2.3	—	300.0
	1934	334.1	21.2	123.6	4.6	7.0	7.2	—	497.7
Krasnoyarsk Territory	1933	—	12.5	19.8	0.6	1.8	0.3	—	35.0
	1934	—	16.5	38.6	1.2	2.2	0.2	—	58.7
East Siberian Territory	1933	—	26.2	29.5	0.1	4.0	0.1	—	59.9
	1934	—	42.4	44.8	0.4	5.5	0.5	—	93.6
Yakut A. S. S. R.	1933	—	0.5	11.0	—	—	0.02	—	11.5
	1934	—	0.6	11.7	0.03	—	—	—	12.3
Far Eastern Territory	1933	—	25.1	41.4	1.2	5.1	0.3	—	73.1
	1934	—	54.6	48.4	1.0	7.1	1.1	—	112.2
II. Ukrainian S. S. R.	1933	2,790.8	131.3	937.4	13.9	31.2	3.8	—	3,908.4
	1934	4,209.8	149.6	1,102.9	18.1	24.3	7.5	—	5,512.2
III. White Russian S. S. R.	1933	65.4	64.1	77.0	0.3	2.0	0.04	—	208.8
	1934	76.5	75.6	103.3	0.6	1.6	0.2	—	257.8
IV. Transcaucasian S. F. S. R.	1933	809.8	93.6	40.3	4.6	2.1	5.0	—	955.4
	1934	1,067.3	101.4	54.9	5.3	2.2	5.4	—	1,236.5
V. Uzbek S. S. R.	1933	16.2	53.1	28.2	1.0	2.8	0.3	—	101.6
	1934	92.7	10.3	34.8	2.2	2.8	0.4	—	143.2
VI. Turkmenian S. S. R.	1933	—	11.2	14.1	0.1	1.3	0.2	—	26.9
	1934	—	11.1	16.8	0.1	1.4	0.3	—	29.7
VII. Tadjik S. S. R.	1933	—	1.9	3.1	0.1	—	0.2	—	5.3
	1934	—	4.2	3.5	0.1	—	0.8	—	8.6

Table 7-b

Electric Energy Balance of the U.S.S.R.: By Republics, Regions and Territories

B. Consumption of Power (in millions of kw-hours)

Republics, Regions and Territories	Year	Industry and building construction	Transport	Home and municipal services	Agriculture	Losses in transmission (district and local stations)	District and municipal stations (own use)	Energy transmitted to other regions	Total energy disposed of
A	B	1	2	3	4	5	6	7	8
U. S. S. R.	1928	3,427 0	100.2	958.5	35.5	351.0	135.3	—	5,007.5
	1929	4,301.7	126.5	1,134 8	39.6	424.6	196.6	—	6.223.8
	1930	5,959 2	131.2	1.367.0	48.3	531 0	331.5	—	8.368.2
	1931	7,422.5	183.2	1,783.0	62 8	708.9	526.0	—	10.686.4
	1932	9,296.2	259.7	2.200.0	86.2	962.5	735.6	—	13,540.2
	1933	11.289.1	322.5	2,603.3	110.0	1,128.0	904.3	—	16,357.2
	1934	14,558.7	434.4	3.142.7	157.3	1,537 3	1,185.8	—	21.016.2
	1935	17,970.0	570.0	3,760.0	190.0	1,930.0	1,480.0	—	25,900.0
I. R. S. F. S. R.	1933	7,481.0	215 4	1.950.6	82.3	800.8	620.7	—	11,150.8
	1934	9,379.8	277.7	2,220.6	106.7	1,015.4	828.0	—	13,828.2
Northern Territory	1933	139.4	2.3	32.4	1.0	5.9	4.5	—	185.5
	1934	146.5	2.5	33.8	1.2	8.6	5.1	—	197.7
Karelian A.S.S.R.	1933	47.5	4.4	4.0	0.5	0.3	0.2	—	56.9
	1934	48.6	4.8	4.3	0.8	1.4	0.4	20.4	80.7
Leningrad Region	1933	1,285.9	19.8	457.5	2.4	169.6	106.5	—	2,041.7
	1934	1,549.8	26.4	506.0	3.7	202.1	119.2	—	2,407.2
Western Region	1933	140.1	8 0	22.3	0.8	4.8	6.0	—	182.0
	1934	165.4	10.3	29.0	1.0	8.4	7.5	—	221.6
Kalinin Region	1933	111.1	4.0	21.2	1.3	7.4	7.2	—	152.2
	1934	133.6	4.6	23.2	1.7	7.6	7.3	—	178.0

Moscow Region	1933	1,759.6	48.2	725.0	9.9	337.1	214.8	46.0	3,140.6
	1934	2,141.2	56.8	750.1	13.8	400 3	259.7	52.8	3,674.7
Ivanovo Region	1933	571 4	6.4	61.3	3.6	50.2	35.8	41 2	769.9
	1934	677.0	7.6	82.3	5.7	58.7	43.3	26.0	900.6
Gorky Territory	1933	597.9	5.6	66.0	1.0	33.0	36.0	0.3	729.8
	1934	683.0	6.9	77.9	1.5	36.6	38.5	2.6	847.0
Kirov Territory	1933	63.8	1.9	10.2	1.6	1.6	0.3	—	79.4
	1934	80.8	2.0	12.2	2.1	3.5	1.4	—	102.0
Kursk Region	1933	23.7	6.0	7.7	1.0	1.3	0.3	—	40.0
	1934	31.0	7.2	11.0	1.3	2.8	1.4	—	54.7
Voronezh Region	1933	106.0	10.3	27.6	3.0	9.5	3.2	—	159.6
	1934	142.9	12.7	31.7	3.7	16.6	15.9	—	223.5
Sverdlovsk Region	1933	719 8	9.5	112.0	3.6	21.0	33.5	—	899.4
	1934	914.4	25.3	133.3	5.0	47.2	83.3	—	1,208.5
Cheliabinsk Region	1933	484.3	5.4	37.7	3.9	42 0	40 4	80.9	694.6
	1934	730.7	7.3	49.2	4.8	56.3	54.2	80.1	982.6
Omsk Region	1933	26.8	3.3	7.7	1.7	3 8	3.1	—	46.4
	1934	33.5	4.3	8.7	2.5	7.3	4.1	—	60.4
Bashkir A.S S.R.	1933	55.3	1.2	8.4	1.1	2.6	2.5	—	71 1
	1934	68.5	1.5	9.3	1.4	4.2	3 9	—	88.8
Tatar A.S.S.R.	1933	50.3	2.1	17.3	0.4	6.6	13.1	—	89.8
	1934	67.5	2.4	20.1	0.6	5.0	14.5	—	110.1
Kuibyshev Territory	1933	108.3	10.4	35.3	3.3	10.3	4.9	—	172.5
	1934	135.1	10.7	38.6	4.6	11.3	5.8	—	206.1

Table 7-b (Continued)

Republics, Regions and Territories	Year	Industry and building construction	Transport	Home and municipal services	Agriculture	Losses in transmission (district and local stations)	District and municipal stations (own use)	Energy transmitted to other regions	Total energy disposed of
A	B	1	2	3	4	5	6	7	8
Orenburg Region	1933	7.2	2.5	2.8	3.4	0.8	1.2	—	17.9
	1934	12.7	2.9	3.9	3.8	1.1	1.2	—	25.6
Stalingrad Territory	1933	168.1	3.3	41.3	4.2	15.1	22.6	—	254.6
	1934	221.5	4.3	48.7	4.6	17.6	29.6	—	326.3
Saratov Territory	1933	76.0	4.0	22.0	3.8	7.9	9.0	—	122.7
	1934	90.6	5.1	28.0	4.7	13.0	13.1	—	154.5
Azov-Black Sea Territory	1933	330.5	16.4	89.6	13.8	36.2	35.6	—	522.1
	1934	405.5	17.6	115.9	16.5	45.4	40.4	—	641.3
Northern Caucasus Territory	1933	142.1	9.1	31.6	5.9	8.6	10.1	—	207.4
	1934	210.7	11.8	43.9	6.8	14.3	11.0	—	298.5
Crimean A.S.S.R.	1933	73.9	1.4	22.7	1.8	4.7	2.7	—	107.2
	1934	84.2	1.9	24.5	2.8	6.9	3.7	—	124.0
Kazakhstan A.S.S.R.	1933	52.8	5.1	11.7	2.6	1.6	0.5	—	74.3
	1934	79.1	6.8	12.7	2.7	3.2	2.9	—	107.4
Kara-Kalpak A.S.S.R.	1933	0.15	—	0.06	—	—	—	—	0.2
	1934	0.17	—	0.06	0.04	—	—	—	0.8
Kirghiz A.S.S.R.	1933	9.3	0.1	2.0	0.1	0.3	0.1	—	11.9
	1934	10.4	0.1	2.1	0.3	0.4	0.2	—	13.5

West Siberian Territory	1933 1934	210.8 337.4	8.7 12.7	42.8 73.5	4.4 5.6	10.5 18.5	22.8 50.0	— —	300.0 497.7
Krasnoyarsk Territory	1933 1934	23.7 42.4	2.8 4.1	5.3 7.5	0.7 1.3	1.2 1.6	1.3 1.8	— —	35.0 58.7
East Siberian Territory	1933 1934	34.9 56.6	6.1 7.8	13.0 17.6	0.3 0.7	4.4 7.1	1.2 3.8	— —	59.9 93.6
Yakut A. S. S. R.	1933 1934	10.7 11.6	— —	0.6 0.5	— 0.03	0.1 0.1	0.1 0.1	— —	11.5 12.3
Far Eastern Territory	1933 1934	49.7 67.5	7.1 9.3	11.5 21.0	1.2 1.4	2.4 8.3	1.2 4.7	— —	73.1 112.2
II. Ukrainian S. S. R.	1933 1934	2,931.7 4,070.2	69.3 97.7	450.4 665.8	18.1 36.3	212.1 351.5	226.8 290.7	— —	3,908.4 5,512.2
III. White Russian S. S. R.	1933 1934	139.8 174.9	7.4 10.3	37.9 38.9	1.5 2.5	11.7 19.0	10.5 12.2	— —	208.8 257.8
IV. Transcaucasian S. F. S. R. . . .	1933 1934	648.7 824.4	24.6 42.6	139.3 171.6	6.5 9.0	93.4 139.3	42.9 49.6	— —	955.4 1,236.5
V. Uzbek S. S. R.	1933 1934	63.9 84.1	4.0 4.1	20.5 37.3	1.4 2.5	8.9 10.5	2.9 4.7	— —	101.6 143.2
VI. Turkmenian S. S. R.	1933 1934	20.6 21.4	1.8 2.0	3.2 4.6	0.1 0.2	0.8 1.0	0.4 0.5	— —	26.9 29.7
VII. Tadjik S. S. R.	1933 1934	3.4 3.9	— —	1.4 3.9	0.1 0.1	0.3 0.6	0.1 0.1	— —	5.3 8.6

Table 8

District Electric Stations: Grouped According to Capacity

Electric Stations: Grouped According to Generating Capacity (thousands kw)	1928						1932						1934					
	Number of electric stations		Capacity		Output of electric energy		Number of electric stations		Capacity		Output of electric energy		Number of electric stations		Capacity		Output of electric energy	
	Absolute figures	Per cent of total	In thousands kw	Per cent of total	In millions kw-hrs	Per cent of total	Absolute figures	Per cent of total	In thousands kw	Per cent of total	In millions kw-hrs	Per cent of total	Absolute figures	Per cent of total	In thousands kw	Per cent of total	In millions kw-hrs	Per cent of total
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Total	23	100 0	626 4	100.0	2,001.4	100.0	103	100.0	3,020.1	100.0	9,217.2	100.0	108	100.0	4,146.6	100.0	15,273.6	100 0
Up to 10 thous. kw	7	30.4	33.2	5.3	76.4	3.8	53	51.5	249.6	8.3	689.8	7.5	40	37.0	181.8	4.4	517.6	3.4
11 to 20 „	9	39.1	146.2	23.3	395.4	19.7	17	16 5	258.6	8.6	834.4	9.1	20	18.6	290.2	7.0	889.9	5.8
21 to 50 „	2	8.7	74.5	11.9	360.3	18.1	14	13.6	440.5	14.6	1,197.0	13.0	24	22.2	786.9	19.0	2,150.3	14 1
51 to 100 „	5	21.8	372.5	59.5	1,169.3	58.4	10	9.7	661.9	21.9	2.268.6	24.6	11	10.2	819.2	19.8	3,080.4	20.2
Over 100 „	—	—	—	—	—	—	9	8.7	1,409.5	46.6	4,227.4	45.8	13	12.0	2,068.5	49.8	8,635.4	56.5

Table 9

Turbo-Generators Installed at District Electric Stations: Grouped According to Capacity

Year	Total turbo-generators		Grouped according to capacity (in thousands kw)										Average capacity per turbo-generator, in thous. kw
			Under 6		6—12		12—25		25—50		Over 50		
	Number	Aggregate capacity, in thous. kw	In thous. kw	Per cent of total	In thous. kw	Per cent of total	In thous. kw	Per cent of total	In thous. kw	Per cent of total	In thous. kw	Per cent of total	
A	1	2	3	4	5	6	7	8	9	10	11	12	13
1930	215	1,415.8	401.3	28.3	366.5	25.9	439.0	31.0	209.0	14.8	—	—	6.6
1931	278	2,367.6	469.9	19.8	494.1	20.9	810.6	34.2	593.0	25.1	—	—	8.5
1932	338	3,004.5	567.3	18.9	522.4	17.4	961.8	32.0	643.0	21.4	310.0	10.3	8.9
1933	333	3,699.4	553.1	14.9	625.9	17.0	1,203.4	32.5	883.0	23.9	434.0	11.7	11.1
1934	352	4,134.7	552.9	13.4	707.4	17.1	1,481.8	35.8	958.6	23.2	434.0	10.5	11.7

Table 10

Boilers Installed at District Electric Stations: Grouped According to Steam Pressure

Year	Total boilers		Grouped according to steam pressure						Average heating surface per boiler, in sq. meters
			Under 18 atm.		18—30 atm.		Over 30 atm.		
	Number	Total heating surface, in sq. meters	Sq. meters	Per cent of total	Sq. meters	Per cent of total	Sq. meters	Per cent of total	
A	1	2	3	4	5	6	7	8	9
1930	459	245,035	145,378	59.3	80,021	22.7	19,636	8.0	534
1931	584	326,597	162,536	49.8	107,641	32.9	57,420	17.3	559
1932	704	416,019	189,673	45.6	124,820	30.0	101,526	24.4	591
1933	700	455,177	185,560	40.8	128,255	28.2	141,362	31.0	650
1934	694	477,391	179,302	37.6	142,529	29.8	155,560	32.6	688

Table 11

New Equipment for Production of Power at District Electric Stations

(Per cent of Soviet-made and imported equipment to total new available capacity)

Year	Turbines (thousands of kw)					Generators (thousands of kw)					Boilers (thousands of sq. m. heating area)				
	Total installed during respective year	Including:				Total installed during respective year	Including:				Total installed during respective year	Including:			
		Soviet-made		Imported			Soviet-made		Imported			Soviet-made		Imported	
		Thousands of kw	Per cent of total capacity installed during respective year	Thousands of kw	Per cent of total capacity installed during respective year		Thousands of kw	Per cent of total capacity installed during respective year	Thousands of kw	Per cent of total capacity installed during respective year		Thousands of sq. meters	Per cent of total heating area installed during respective year	Thousands of sq. meters	Per cent of total heating area installed during respective year
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1930	367.0	39.5	10.7	327.5	89.3	367.0	42.5	11.6	324.5	88.4	64.5	7.4	11.5	57.1	88.5
1931	914.0	177.0	19.4	737.0	80.6	914.0	294.5	32.2	619.5	67.8	62.3	13.1	21.0	49.2	79.0
1932	578.3	27.9	4.8	550.4	95.2	578.3	129.0	22.3	449.3	77.7	63.8	13.7	21.5	50.1	78.5
1933	757.4	312.7	41.2	444.7	58.8	757.4	712.6	94.1	44.8	5.9	51.8	37.9	73.1	13.9	26.9
1934	466.4	313.3	67.2	153.1	32.8	466.4	463.4	99.4	3.0	0.6	37.1	33.0	88.9	4.1	11.1

Table 12

Utilization of Rated Capacity at Electric Generating Stations

A. By Republics, Regions and Territories

Republics, Regions and Territories	Year	Average annual rated capacity (thousands of kw)	Electric energy output (millions of kw-hrs)	Rated capacity [1]	
				In hour-expression	Per cent
A	B	1	2	3	4
Total district stations	1933 1934	3,171.0 3,939.7	11,498.9 15,273.6	3,627 3,874	41 4 44.2
Including:					
Stations controlled by the Main Power Board .	1933 1934	2,768.1 3,445.0	10.260.3 13,551 7	3,705 3,977	42.3 45.4
R. S. F. S. R.	1933 1934	1,952.3 2,469.1	7,816.7 9,827.3	4,005 3,971	45.7 45.3
Karelian A.S.S.R.	1933 1934	4.5 12.0	11 5 31.1	2,555 2,591	29.0 29.6
Leningrad Region	1933 1934	358.0 510.4	1,724.8 2,059.5	4,700 4,038	55.0 46.1
Western Region	1933 1934	22.0 22.0	30.3 56.0	1.253 2,540	14.3 29.0
Kalinin Region	1933 1934	19 0 19.0	74.3 83.4	3,898 4,380	44.5 50.0
Moscow Region	1933 1934	561.6 640.3	2,871.0 3,356.4	5,090 5,247	58.1 59.9
Ivanovo Region	1933 1934	130.1 140.6	467.4 574.6	3,592 4,087	41.0 46.7
Gorky Territory	1933 1934	169.5 204.0	515.4 628.2	3,031 3,084	34.6 35.2.
Voronezh Region	1933 1934	6.0 30.0	7.4 70.9	1,250 2,360	14.3 26.9
Ural Region (Sverdlovsk and Cheliabinsk Regions)	1933 1934	337.0 446.1	960.0 1,496.1	2,855 3,150	32.6 36.0
Tatar A.S.S.R.	1933 1934	21.5 24.0	55 8 71.6	2.602 2,987	29.7 34.1

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[1] The use factor of rated capacity in hour-expression is obtained by dividing the output of electric energy by the average annual rated capacity. The per cent of use factor is computed as a percentage of the use factor in hour-expression of the total number of hours in the calendar year—i. e., 8,760 hours.

Table 12 (Continued)

Republics, Regions and Territories	Year	Average annual rated capacity (thousands of kw)	Electric energy output (millions of kw-hrs)	Rated capacity [1])	
				In hour-expression	Per cent
A	B	1	2	3	4
Kuibyshev Territory	1933	15.2	52.4	3,443	39.3
	1934	15.2	64.2	4,266	48.7
Stalingrad Territory	1933	51.0	167.4	3,276	37.4
	1934	73.0	230.8	3,171	36.2
Saratov Territory	1933	22.5	62.7	2,786	31.8
	1934	25.5	86.8	3,434	39.2
Azov-Black Sea Territory	1933	117.0	405.5	3,469	39.6
	1934	138.7	498.7	3,574	40.8
Northern Caucasus Territory	1933	32.4	143.1	4,417	50.5
	1934	36.7	223.8	6,095	69.7
Crimean A.S.S.R	1933	10.6	38.6	4,003	45.7
	1934	11.1	47.5	4,284	48.9
West Siberian Territory	1933	58.0	157.5	2,715	31.0
	1934	117.5	334.1	2,837	32.4
Ukrainian S. S. R.	1933	1,005.2	2,790.8	2,776	31.7
	1934	1,156.5	4,209.8	3,640	41.6
Dniepropetrovsk Region	1933	418.0	556.9	1,332	15.2
	1934	532.0	1,300.8	2,427	27.7
Donetz Region	1933	445.5	1,706.9	3.837	43.8
	1934	450.9	2,236.3	4,949	56.5
Kiev Region	1933	39.9	148.5	3,688	42.1
	1934	40.2	184.8	4,581	52.3
Odessa Region	1933	34.3	147.9	4,301	49.1
	1934	47.2	184.1	3,898	44.5
Kharkov Region	1933	67.5	230.7	3,416	39.0
	1934	83.9	303.8	3,609	41.2
White Russian S. S. R.	1933	20.0	65.4	3,276	37.4
	1934	21.6	76.5	3,546	40.6
Transcaucasian S. F. S. R.	1933	187.5	809.8	4,318	49.3
	1934	267.0	1,067.3	3,993	45.6
Georgian S.S.R.	1933	19.0	106.6	5,610	64.0
	1934	62.0	200.9	3,240	37.0
Armenian S.S.R.	1933	10.0	12.0	1,200	13.7
	1934	22.5	45.4	2,024	23.1
Azerbaidjan S.S.R.	1933	158.5	691.2	4,361	49.7
	1934	182.5	820.0	4,494	51.3
Uzbek S. S. R.	1933	6.0	16.2	2.698	30.8
	1934	27.8	92.7	3,329	38.0

Table 13

Utilization of Rated Capacity at District Electric Generating Stations [1]

B. By Principal Generating Stations

Stations	Year	Average annual rated capacity (thousands of kw)	Electric energy output (millions of kw-hrs)	Rated capacity	
				In hour-expression	Per cent
A	B	1	2	3	4
Peat-burning stations					
Shatura station	1933 1934	154.0 180.0	923.2 1,107.8	6,009 6,158	68.6 70.3
Third Moscow station	1933 1934	46.0 46.0	238.6 237.8	5,177 5,177	59.1 59.1
Fifth Leningrad "Red October" station	1933 1934	111.0 111.0	507.9 393.5	4,564 3,548	52.1 40.5
Gorky station	1933 1934	169.5 204.0	515.4 628.2	3,031 3,084	34.6 35.2
Ivanovo station	1933 1934	75.0 79.0	303.4 343.4	4,038 3,635	46.1 41.5
Yaroslavl station	1933 1934	36.0 36.0	112.4 157.3	3,136 4,380	35.8 50.0
Ossinovsk station	1933 1934	20.0 20.0	65.4 73.7	3,270 3,687	37.4 42.1
Dubrovsk station	1933 1934	21.0 100.0	73.5 293.8	3,504 2,926	40.0 33.4
Stations utilizing local pulverized fuel					
Kashir station	1933 1934	186.0 186.0	1,034.5 1,187.9	5,554 6,386	63.4 72.9
Shterovsk station	1933 1934	152.0 152.0	586.5 774.4	3,863 5,090	44.1 58.1
Zuevsk station	1933 1934	150.0 150.0	721,9 967,1	4,818 6,412	55.0 73.2
Northern Donetz station	1933 1934	60.0 71.3	177.1 286.3	2,943 4,012	33.6 45.8
Shakhty station	1933 1934	66.0 90.0	279.8 347.9	4,240 3,872	48.4 44.2
Berezniki Central District Heating and Power Station	1933 1934	75.5 93.1	126.4 194.8	1,358 2,080	15.5 23.7
Kuznetsk Central District Heating and Power Station	1933 1934	48.0 66.0	119.1 243.1	2,480 3,662	28.3 41.8
Magnitogorsk station	1933 1934	76.3 98.2	118.7 189.5	1,585 1,941	18.1 22.2
Kiselov station	1933 1934	30.0 74.0	77.0 172.7	2,567 2,330	29.3 26.6

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[1] See footnotes to Table 12.

[2] Donetz coal and fuel oil (mazout).

Table 18 (Continuetd)

Stations	Year	Average annual rated capacity (thousands of kw)	Electric energy output (millions of kw-hrs)	Rated capacity	
				In hour-expression	Per cent
A	B	1	2	3	4
Stations utilizing non-local pulverized fuel					
Chuguyev station	1933	45.5	182.9	4,047	46.2
	1934	45.5	241.9	5,317	60.7
Stalingrad station	1933	51.0	167.4	3,276	37.4
	1934	73.0	230.8	3,171	36.2
Kiev station	1933	21.0	108.5	5,151	58.8
	1934	21.3	129.4	6,079	69.4
Stations utilizing local coal					
Cheliabinsk station	1933	107.0	493.6	4,608	52.6
	1934	125.0	663.7	5,300	60.5
Stations burning oil fuel					
First Moscow station	1933	111.3	442.5	3.968	45.3
	1934	119.5	477.6	3,995	45.6
Odessa station	1933	26.8	113.7	4,214	48.1
	1934	35.4	139.6	3,942	45.0
Azneft "Red Star" station	1933	85.0	390.8	4,597	52.5
	1934	109.0	502.8	4,612	52.6
Azneft "Krassin" station	1933	67.6	285.4	4,221	48.2
	1934	67.6	304.9	4,510	51.5
Stations utilizing mixed fuel [2])					
First Leningrad station	1933	65.0	274.8	4,231	48.3
	1934	65.0	264.2	4,065	46.4
Second Leningrad station	1933	56.0	296.4	5,282	60.3
	1934	67.5	338.7	5,002	57.1
Second Moscow station	1933	38.5	131.6	3,399	38.8
	1934	35.7	122.5	3,434	39.2
Hydro-electric stations					
Dnieper station	1933	362.0	425.0	1.174	13.4
	1934	434.0	1,101.7	2,540	29.0
Svirsk station	1933	4.0	5.9	1,475	16.8
	1934	66.0	340.8	5,163	58.9
Volkhov station	1933	66.0	485.4	7,586	86.6
	1934	66.0	355.6	5,379	61.4
Rion station	1933	6.0	13.6	1.551	17.7
	1934	41.0	104.4	2,540	29.0
Zemo-Avchaly station	1933	13.0	93.0	7,148	81.6
	1934	21.0	97.5	4,590	52.4
Dzoragetz station	1933	10.0	12.0	1,200	13.7
	1934	22.5	45.4	2,024	23.1
Kadyrinsk station	1933	6.0	16.2	2,698	30.8
	1934	13.0	44.5	3,443	39.3

Utilization of Fuel at District Electric Generating Stations

A. By Republics, Regions and Territories

Republics, Regions and Territories	Year	Consumption of conventional fuel (7,000 cal.), in kilograms			Efficiency		Coefficient of consumption for own use of station 4)
		Per 1 kilowatt-hour		Per 1,000 cal. heat disposed of 1)	Boiler-house (net) 2)	Over-all station efficiency 3)	
		Energy produced	Energy disposed of				
A	B	1	2	3	4	5	6
Total district stations	1933	0.723	0.788	202	5)	20.5	7.6
	1934	0.677	0.738	205	5)	22.3	7.2
Including:							
Stations controlled by the Main Power Board	1933	0.726	0.790	208	5)	19.4	7.4
	1934	0.684	0.742	209	5)	20.6	7.0
R. S. F. S. R.	1933	0.706	0.769	195	5)	21.3	7.8
	1934	0.669	0.730	183	5)	23.4	7,8
Leningrad Region	1933	0.769	0.830	218	63 2	18.8	6.0
	1934	0,678	0.732	222	68.3	22.1	5.6
Western Region	1933	1.111	1.220	—	51.8	10.2	11.8
	1934	0.816	0.924	283	55.4	14.2	22.0
Kalinin Region	1933	0.844	0.932	204	70.1	36.7	9.4
	1934	0.849	0.928	205	69.6	30.6	8.5
Moscow Region	1933	0.662	0.714	201	71.8	20.6	7.5
	1934	0.649	0.702	204	73.5	22.2	7.6
Ivanovo Region	1933	0.623	0.669	196	67.3	23 6	6.9
	1934	0.620	0.662	214	65.4	23.4	6.4
Gorky Territory	1933	0.628	0.676	—	75.7	18.2	7.0
	1934	0.620	0.661	231	75.3	18.6	6.1
Voronezh Region	1933	1.289	1.532	5)	5)	5)	15.4
	1934	0.758	0.921	206	64.0	20.6	17.7
Ural Region (Sverdlovsk, and Cheliabinsk Regions)	1933	0.719	0.798	194	5)	19.2	9.4
	1934	0.690	0.768	198	73.8	26.8	10.2
Tatar A.S.S.R.	1933	0.773	0.983	294	53 9	24.9	23.5
	1934	0.606	0.758	256	60.0	35.4	20.2

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1) The consumption of conventional fuel per 1,000 cal. heat disposed of is obtained by dividing 1,000 cal. by the net boiler-house efficiency and converting the resultant figure into kilograms of conventional fuel.

2) Net boiler-house efficiency is the ratio of the number of calories contained in the steam generated (excluding steam and electric energy consumed at boiler-house) to the number of calories contained in the fuel consumed.

3) Over-all station efficiency includes waste-heat usefully disposed of.

4) The coefficient of station's own use is obtained by dividing energy used at electric stations proper by the total amount of energy delivered ex bus-bars.

5) No data.

Table 14. (Continued)

Republics, Regions and Territories	Year	Consumption of conventional fuel (7,000 cal.), in kilograms			Efficiency		Coefficient of consumption for own use of station [4])
		Per 1 kilowatt-hour		Per 1,000 cal. heat disposed of [1])	Boiler-house (net) [2])	Over-all station efficiency [3])	
		Energy produced	Energy disposed of				
A	B	1	2	3	4	5	6
Kulbyshev Territory	1933	0.721	0.783	176	66.2	17.2	8.0
	1934	0.714	0.776	200	72.5	21.4	7.1
Stalingrad Territory	1933	0.765	0.876	244	61.0	17.9	13.3
	1934	0.697	0.792	231	64.8	19.4	12.1
Saratov Territory	1933	0.853	0.994	195	63.0	13.4	14.2
	1934	0.815	0.930	344	56.4	16.7	12 4
Azov-Black Sea Territory	1933	0.756	0.827	217	74.3	15.9	8.5
	1934	0.720	0.782	250	71.0	17.0	7.9
Northern Caucasus Territory	1933	0.650	0.690	190	5)	38.3	4.9
	1934	0.623	0.661	197	5)	41.4	5.7
Crimean A.S.S.R.	1933	0.934	0.990	—	7.40	13.0	6.5
	1934	0.911	0.974	—	7.51	13.1	6.4
West Siberian Territory	1933	1.149	1.329	196	5)	21.4	13.6
	1934	0.750	0.853	229	5)	25.1	12.1
Ukrainian S.S.R.	1933	0.776	0.852	197	5)	19.3	7.7
	1934	0.683	0.772	194	5)	24.4	6.6
Dniepropetrovsk Region	1933	0.742	0.839	—	71.4	12.7	11.9
	1934	0.796	0.888	—	74.0	13.9	11.4
Donetz Region	1933	0.734	0 802	196	66.0	22.7	8.8
	1934	0.645	0.705	191	71.7	23.6	8.6
Kiev Region	1933	0.869	0.960	—	59.0	12.5	9.4
	1934	0.867	0.944	—	63.4	13.0	9.2
Odessa Region	1933	1.107	1.169	—	5)	10.5	5.4
	1934	1.118	1.198	191	5)	10.4	7.5
Kharkov Region	1933	0.801	0.887	204	64.5	13.9	9.7
	1934	0.750	0.825	262	66.0	15.0	9.1
White Russian S.S.R.	1933	0.871	0.958	—	52.0	12.8	10.0
	1934	0.869	0.948	—	52.4	13.1	7.9
Transcaucasian S.F.S.R.	1933	0.655	0.697	157	5)	22.5	6.0
	1934	0.659	0.700	169	5)	21.3	5.8
Azerbaidjan S.S.R.	1933	0.655	0.697	157	—	22.5	5)
	1934	0.659	0.700	169	—	21.3	5)

Utilization of Fuel at District Electric Generating Stations [1]

B. By Principal Generating Stations

Stations	Year	Consumption of conventional fuel (7,000 cal.), in kilograms			Efficiency		Coefficient of consumption for own use of station
		Per 1 kilowatt-hour		Per 1,000 cal. heat disposed of			
		Energy produced	Energy disposed of		Boiler-house efficiency (net)	Over-all station efficiency	
A	B	1	2	3	4	5	6
Peat-burning stations							
Shatura station	1933	0.673	0.698	204	72.1	17.9	3.6
	1934	0.643	0.672	197	75.4	20.2	4.4
Third Moscow station	1933	0.810	0.870	212	67.3	14.9	6.9
	1934	0.820	0.877	203	65.9	15.2	6.5
Fifth Leningrad "Red October" station	1933	0.764	0.824	237	60.3	14.9	7.4
	1934	0.654	0.710	252	66.7	17.3	7.9
Gorky station	1933	0.628	0.676	—	75.7	18.2	7.0
	1934	0.620	0.661	231	75.3	18.6	6.1
Ivanovo station	1933	0.570	0.603	186	77.0	21.0	5.5
	1934	0.582	0.615	197	72.6	20.9	4.2
Yaroslavl station	1933	0.702	0.760	—	61.5	16.2	7.6
	1934	0.679	0.729	—	64.7	16.9	6.8
Ossinovsk station	1933	0.871	0.958	—	52.0	12.8	10.0
	1934	0.865	0.935	—	52.4	13.1	7.4
Dubrovsk station	1933	0.890	0.998	250	[2]	[2]	10.6
	1934	0.593	0.631	294	[2]	[2]	5.9
Stations utilizing local pulverized fuel							
Kashir station	1933	0.613	0.687	213	72.1	18.1	10.7
	1934	0.594	0.658	189	75.4	19.0	9.7
Shterovsk station	1933	0.710	0.776	—	59.0	15.8	8.3
	1934	0.638	0.695	—	73.2	17.7	8.2
Zuevsk station	1933	0.652	0.709		68.0	17.4	8.1
	1934	0.594	0.648	177	75.7	19.4	8.2
Northern Donetz station	1933	0.515	0.557	193	74.0	52.3	11.9
	1934	0.485	0.534	183	77.1	50.3	9.2
Shakhty station	1933	0.662	0.728	—	77.1	16.9	9.1
	1934	0.636	0.695	196	73.5	17.8	8.4
Berezniki Central District Heating and Power Station	1933	0.540	0.823	181	[2]	46.1	29.0
	1934	0.510	0.648	[2]	[2]	52.0	20.5
Kuznetsk Central District Heating and Power Station	1933	0.815	0.962	196	68.0	25.3	15.4
	1934	0.674	0.771	[2]	71.0	28.0	12.9
Magnitogorsk station	1933	0.707	0.818	—	[2]	[2]	9.1
	1934	0.661	0.710	—	73.0	32.0	6.9
Kiselov station	1933	1.050	1.150	288	57.6	12.8	8.8
	1934	0.863	1.004	271	63.1	13.0	14.1
Stations utilizing non-local pulverized fuel							
Chuguyev station	1933	0.676	0.742	—	70.3	16.5	9.2
	1934	0.659	0.719	—	69.7	17.1	8.3
Stalingrad station	1933	0.765	0.876	244	61.0	17.9	13.3
	1934	0.697	0.792	231	64.8	19.4	12.1
Kiev station	1933	0.790	0.880	—	58.6	14.0	10.0
	1934	0.754	0.835	—	64.1	14.7	9.8

Table 15 (Continued)

Stations	Year	Consumption of conventional fuel (7,000 cal.), in kilograms			Efficiency		Coefficient of consumption for own use of station
		Per 1 kilowatt-hour		Per 1,000 cal. heat disposed of	Boiler-house efficiency (net)	Over-all station efficiency	
		Energy produced	Energy disposed of				
A	B	1	2	3	4	5	6
Stations utilizing local coal							
Cheliabinsk station	1933	0.617	0.650	—	74.7	18.9	5.1
	1934	0.602	0.636	180	74.2	19.6	5.5
Stations utilizing oil fuel							
First Moscow station	1933	0.677	0.721	198	77.2	20.3	6.6
	1934	0.668	0.716	189	77.0	20.6	6.7
Odessa station	1933	1.112	1.155	—	2)	10.6	3.8
	1934	1.113	1.192	210	66.0	10.5	6.6
Azneft "Red Star" station	1933	0.611	0.649	—	2)	18.9	5.9
	1934	0.621	0.660	—	2)	18.6	5.8
Azneft "Krassin station"	1933	0.608	0.646	—	2)	19.0	5.9
	1934	0.626	0.664	—	2)	18.5	5.7
Stations utilizing mixed fuel 3)							
First Leningrad station	1933	0.801	0.869	213	66.2	15.0	7.8
	1934	0.763	0.824	202	71.0	16.9	7.4
Second Leningrad station	1933	0.733	0.804	217	63 9	17.2	8.2
	1934	0.673	0.732	212	68.4	19.6	8.1
Second Moscow station	1933	0.798	0.854	212	72.4	18.1	6.6
	1934	0.853	0.911	213	70.4	17.6	6.4

Table 16

Efficiency Characteristics of District Electric Stations

Year	Consumption of conventional fuel (7,000 cal.), in kilograms		Use factor of rated capacity	
	Per kw-hour energy produced	Per kw-hour energy disposed of	In hour-expression	Per cent
A	1	2	3	4
1930	0.86	0.92	3,400	38.9
1931	0.80	0.87	3,700	42.3
1932	0.77	0.84	3,470	39.7
1933	0.72	0.79	3 627	41.4
1934	0.68	0.74	3,874	44.2
1935 4)	0.65	0.71	4,650	53.1

1) See footnotes to Table 14.
2) No data available.
3) Donetz coal and fuel oil (mazout).
4) Preliminary data.

4. COAL INDUSTRY

Table 1

Summary for the Coal Mining Industry

Year	Fixed capital as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thous. kw)	Average annual number of wage-earners	Gross output in prices of 1926-27 (millions of rubles)[1]
A	1	2	3	4
1926	296.2	209.0	180,533	289
1927	338.1	240.5	205,086	348
1928	385.5	276.4	212,880	377
1929	428.5	282.5	222,468	424
1930	498.2	289.0	225,078	501
1931	706.8	361.0	272,867	609
1932	910.0	429.7	361,716	715
1933	1,171.0	540.7	397,736	809
1934	1,422.3	613.4	422,811	989

Table 2

Production Costs in the Coal Mining Industry Itemized

(Per cent of total)

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1932	11.5	6.6	4.5	58.0	8.7	10.7	100.0
1934	12.6	6.0	4.6	57.3	8.0	11.5	100.0

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[1] Figures for rate of growth in gross output of the coal mining industry differ somewhat from the rate of growth of coal output expressed in physical units, as the former figures include besides the value of coal mined also sales of auxiliary departments.

Table 3

Power Supply in the Coal Mining Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers 1)	Thous. of kw	179.6	102.7	69.9	82.0	92.2	90.3	94.6
Capacity of electric generators 1)	„	106.8	45.1	18.1	31.1	44.0	39.6	47.5
Capacity of electric motors 1)	„	203.6	224.9	237.2	310.1	381.5	490.0	566.3
Including: Capacity of electric motors utilizing purchased power	„	66.8	177.7	226.9	288.3	349.6	427.6	534.7
Capacity of prime movers and electric motors driving operating machinery 1)	„	276.4	282.5	289.0	361.0	429.7	540.7	613.4
Power generated by prime movers	Millions of kw-hours	488.2	297.6	209.7	257.6	292.8	289.8	325.5
Power generated by electric generators	„	284.4	138.5	48.3	77.7	96.1	105.3	117.0
Purchased power	„	134.3	328.8	475.1	587.2	710.2	884.4	1,132.9
Sale of power	„	85.7	75.0	65.0	129.0	134.3	124.2	148.7
Total consumption of power 2)	„	536.8	551.4	619.8	715.8	868.7	1,050.0	1,309.7
a) Electric energy	„	333.0	392.3	458.4	535.9	672.0	865.5	1,101.2
Electric energy used as motive power	„	276.5	358.7	417.2	493.3	619.9	788.9	1,014.0
b) Mechanical energy used for driving operating machinery	„	172.5	143.8	156.0	171.3	186.1	172.9	195.6
Coefficient of centralization of electric power supply	—	32.1	70.4	90.8	88.3	88.1	89.4	90.6
Coefficient of electrification of industrial processes	—	61.6	71.4	72.8	74.3	76.9	82.1	83.9
Total power supply per worker	Kw-hours per man-hour	1.28	1.24	1.30	1.33	1.34	1.44	1.73
Electric power supply per worker	„	0.79	0.88	0.96	1.00	1.04	1.20	1.47

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1) As at end of year.

2) Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 4

Output of Coal and Brown Coal: By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	1913			1927-28			1932			1934		
	Coal (including anthracite)	Brown coal	Total coal and brown coal	Coal (including anthracite	Brown coal	Total coal and brown coal	Coal (including anthracite)	Brown coal	Total coal and brown coal	Coal (including anthracite)	Brown coal	Total coal and brown coal
A	1	2	3	4	5	6	7	8	9	10	11	12
U. S. S R.	**27,987**	**1,130**	**29,117**	**32,453**	**3,057**	**35,510**	**57,775** [1]	**6,889**	**64,664** [1]	**82,557** [1]	**11,383**	**93 940**[1]
I. **R. S. F. S. R.**	5,130	1,102	6,232	7,530	3,044	10,574	17,444	6,791	24,235	27,833	11,155	38,988
Northern Territory	—	—	—	—	—	—	9.0	—	9.0	61	—	61
Leningrad Region	—	—	—	—	—	—	—	5.4	5.4	—	—	—
Moscow Region	—	300.0	300 0	—	1,135.0	1,135.0	—	2,613.0	2,613.0	—	4,619	4,619
Sverdlovsk Region	900.0	185.0	1,085.0	1,204.0	300.0	1,504.0	1,708.6	366.0	2,074.6	2,909	463	3.372
Cheliabinsk Region	—	132.0	132.0	—	485.0	485.0	—	1,091	1,091	30	2,106	2,136
Azov Black Sea Territory												
Northern Caucasus Territory	2,528.0	—	2,528 0	2,498.0	—	2,498.0	4,929	—	4,929	7,016	—	7,016
Crimean A.S.S.R.	—	—	—	6	—	—	—	2.5	2.5	13	—	13
Kazakhstan A.S.S.R.	81.0	9.0	90.0	14	23.4	27.4	730.2	91 5	821.7	1.833	87	1,920
Kirghiz A.S.S.R.	13.0	90.0	103.0	—	215.0	215.0	185.0	531.8	716.8	272	702	974
West Siberian Territory	799.0	—	799.0	2,738.0	5	2,743 0	7,516.4	28 0	7,544 4	11 932	15	11.947
East Siberian Territory	509.0	313.0	822.0	601.0	283.0	884.0	1,641.3	517.8	2,159.1	2,692	830	3,522
Yakut A.S.S.R.	—	—	—	—	—	—	—	8.4	8.4	—	18	18
Far Eastern Territory	268.0	105.0	373.0	475	598	1,073.7[2]	724.7	1,535.6	2,260.3	1.075	2,315	3,390
II. **Ukrainian S.S.R.**	22,760.0	—	22,760.0	24,832.0	—	24,832.0	40,115	80.6	40,195.6	54.480	200	54,680
III. **Transcaucasian S.F.S.R.**	70.0	—	70.0	85.0	—	85 0	205.3	—	205.3	234	—	234
IV. **Central Asia Republics.**	27.0	28.0	55.0	4	13.0	19.0	11.2	17.2	28.4	10	28	38

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[1] In addition, 26,000 tons were mined in Spitzbergen in 1932, 128,100 tons in 1933 and 220,000 tons in 1934.

[2] Exclusive of the Japanese Concession.

Output of Coal and Brown

(In thousands

Coalfields	1913	1921-22	1922-23	1923-24	1924-25
A	1	2	3	4	5
Total coal and brown coal mined	**29,117**	**11,324**	**12,700**	**16,328**	**16,520**
Coalfields					
1. Donetz Coalfield	25,288	7,187	8,101	12,153	12 451
2. Ural Coalfields	900	483	604	634	825
Including: a) Kiselov Coalfield	897	409	547	585	775
b) Yegorshin Coalfield	3	58	56	47	48
3. West Siberian Coalfields	799	908	854	983	1,015
Including: Kuznetsk Coalfield	774	885	827	954	985
4. East Siberian Coalfields	541	387	499	369	221
Including: Irkutsk Coalfield	541	387	499	369	221
5. Far Eastern Coalfields	268	262	386	323	289
Including: Suchan Coalfield	164	138	233	205	251
Sakhalin Coalfield	33	45	105	97	18[2])
6. Kazakhstan Coalfields	81	56	37	46	10
Including: Karaganda Coalfield	—	—	—	—	—
7. Central Asia Coalfields	40	9	13	13	17
8. Tkvibuli Coalfield (Transcaucasian S.F.S.R.)	70	26	30	63	75
9. Pechora Coalfield	—	—	—	—	—
Total coal production	**27,987**	**9,318**	**10.524**	**14,584**	**14.903**
Brown Coal					
1. Coalfields of the Ukrainian S.S.R.	—	—	—	—	—
2. Coalfields of the Crimean A.S.S.R.	—	—	—	—	—
3. Sub-Moscow Coalfield	300	623	780	660	556
4. Ural Coalfields	317	541	554	399	429
Including: a) Cheliabinsk Coalfield	132	384	354	192	219
b) Bogoslovsk Coalfield	185	157	200	207	210
5. West Siberian Coalfields	—	6	5	7	3
6. East Siberian Coalfields	281	337	330	220	123
Including: Transbaikal Coalfields	281	337	330	220	123
7. Far Eastern Coalfields	105	402	424	383	411
Including: Uglov Coalfield	100	125	153	179	272
8. Kazakhstan Coalfields	9	2	3	4	6
9. Central Asia Coalfields	118	95	80	71	89
10. Yakut Coalfields	—	—	—	—	—
11. Borovichi Coalfield	—	—	—	—	—
Total brown coal	**1,130**	**2,006**	**2,176**	**1,744**	**1,617**

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[1]) In addition, 26,000 tons were mined in Spitzbergen in 1932, 128,100 tons in 1933 220,000 tons in 1934.

[2]) 1924-25—1929-30 data are exclusive of the Japanese Concession in Sakhalin.

Table 5

Coal: By Coalfields

of tons)

1925-26	1926-27	1927-28	1928-29	1929-30	1931	1932	1933	1934
6	7	8	9	10	11	12	13	14
25,770	**32,275**	**35,510**	**40,067**	**47,780**	**56,752**	**64,644** 1)	**76,205** 1)	**93,940**1)
19,603	24,523	27,330	30,980.0	36,541.0	40,936.0	45,044	51,060	61,496
915	1,076	1,204	1,225.0	1,354.2	1,691.3	1,708.6	2,240.0	2,939
843	970	1,109	1,157.0	1,295.1	1,587.8	1,529.2	2,020.5	2,696
70	100	95	68.0	59.1	103.5	179.4	213.5	213
1,832	2,685	2,738	3,128.1	3,743.5	5,620.4	7,516.4	9,502.9	11,932
1,782	2,585	2,618	3,004.1	3,610.5	5,459.4	7,255.2	9,159.7	11,495
508	659	601	691.0	954.0	1,306.3	1,641.3	2,106.1	2,692
508	659	601	691.0	954.0	1,260.7	1,529.0	1,860.1	2,283
397	413	475.1	454.2	570.6	660.1	724.7	837.4	1,075
344	333	433	389.0	489.6	372.6	362.3	377.1	503
2[2]	46[2]	10[2]	31.0[2]	39.2[2]	211.5	275.7	326.8	436
7	12	14	16	19.9	287.3	730.2	1,142.6	1,833
—	—	—	—	11.9	278.3	721.9	1,132.7	1,831
6.4	4.1	6	7	8.0	89.9	196.2	231.1	282
85	80	85	88.0	97.0	144.0	205.3	185.5	234
—	—	—	—	—	6.0	9.0	33.0	61
23,353	**29,452**	**32,453**	**36,589**	**43,289**	**50,741**	**57,775**	**67,339**	**82,557**
—	—	—	—	—	38.2	80,6	103.6	200
—	—	—	—	—	—	2.5	2.0	—
937	971	1,135	1,261.0	1,697.0	2,131.0	2,613.0	3,833	4,619
657	789	785	847.0	984.4	1,199.9	1,456.3	1,959.0	2,569
390	472	485	547.0	688.1	823	1,091	1,601.8	2,106
267	317	300	300.0	296.3	376.9	366.0	357.2	463
4	5	5	6.0	9.0	25.0	28.0	28.0	15
204	294	283	338.0	316.4	588.6	517.8	392.5	830
204	294	283	338.0	316.4	588.6	517.8	392.5	830
482	562	597.6	668.6	1,027.5	1,351.7	1,535.6	1,841.2	2,315
380	442	498	529.0	855.9	1,120.1	1,241.5	1,514.6	1,808
6.7	11.5	23.4	57.3	71.2	89.4	91.5	85.7	87
126	190	228	298.0	379.0	576.2	549.0	583.5	730
—	—	—	1.8	7.4	10.7	8.4	20.4	18
—	—	—	—	—	—	5.4	17.0	—
2,417	**2,823**	**3,057**	**3,478**	**4,491**	**6,011**	**6,889**	**8,866**	**11,383**

Table 6

Mechanization of Mining and Haulage in the Coal Mining Industry 1)

Coalfields	Year	Total operating output (thousands of tons)	Coal mined mechanically (per cent of total output)		Mechanized loading and haulage from coal face to main drive (per cent)	Mechanized haulage from main drive to cage (per cent)
			Total	Including: coal mined with heavy duty cutting machines (per cent of total)		
A	B	1	2	3	4	5
Total U. S. S. R.	1932	63 961	62.6	40.8	72.8	19.6
	1933	75.314	67.6	40.9	74.9	36.9
	1934	93,309	71.2	41.1	76.0	40.5
Donetz Coalfield	1927-28	27,330	19.4	18.1	25.9	2)
	1928-29	30,731	27.8	26.9	58.8	2)
	1929-30	36,186	39.0	33.7	66.9	2)
	1931	40,321	66.2	49.1	79.5	8.1
	1932	44,890	70.4	52.1	81.8	17.4
	1933	50.875	75.2	53.9	84.6	40.5
	1934	61,310	77.2	55.1	85.4	41.3
Sub-Moscow Coalfield	1931	2,131	49.3	3.1	2)	41.9
	1934	4,619	58.2	9.7	28.4	76.6
Ural Coalfields	1931	2,686	39.5	22.3	40.4	49.3
	1934	5,448	66.4	21.2	78.6	54.7
Kuznetsk Coalfield	1931	4,478	41.5	14.9	79.0	16.5
	1934	11.714	60.0	13.0	75.9	28.5
East Siberian Coalfields	1931	1,860	56.2	26.5	7.2	—
	1934	3,517	78.9	30.1	25.9	34.7
Far Eastern Coalfields	1931	1,757	30.8	—	5.3	15.8
	1934	3,342	54.2	0.6	46.8	29.2
Central Asia Coalfields	1932	720	45.8	—	15.7	—
	1934	985	59.7	1.4	33.9	—
Karaganda Coalfield	1932	710	0.3	0.3	—	—
	1934	1,805	30.4	19.1	48.9	—

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1) Figures for mechanization of mining and haulage refer to operating output in all the coal mining industry. Data previously published by the Central Administration of Economic and Social Statistics refer to output of trusts belonging to the All-Union coal industry. Data for trusts of the All-Union coal industry for 1934 are as follows:

	U.S.S.R.	Donetz Coalfield
Coal mined mechanically	73.2	79.1
Mechanized loading and haulage from coal face to main drive	77.3	87.2
Mechanized haulage from main drive to cage	41.2	42.2

2) No data available.

Table 7

Mechanization of Coal Mining 1)

Coalfields	Year	Coal mined mechanically:				
		Total	Including:			
			Heavy duty cutting machines	Light duty cutting machines	Chipping hammers	Coal mined by other mechanical methods 2)
		Per cent of total operating output				
A	B	1	2	3	4	5
Total U. S. S. R.	1932	62.6	40.8	0.9	9.4	11.5
	1933	67.6	40.9	0.8	10.8	15.1
	1934	71.2	41.1	0.7	12.0	17.4
Donetz Coalfield	1933	75.2	53.9	0.5	10.5	10.3
	1934	77.2	55.1	0.5	10.3	11.3
Sub-Moscow Coalfield	1933	56.8	10.3	0.6	30.8	15.1
	1934	58.2	9.7	0.5	29.5	18.5
Ural Coalfields	1933	56.3	24.0	6.2	14 5	11.6
	1934	66.4	21.2	6.1	24.9	14.2
Kuznetsk Coalfield	1933	52.7	14.5	0.3	8.1	29.8
	1934	60.0	13.0	0.2	14.6	32.2
East Siberian Coalfields	1933	71.5	24.3	—	—	47.2
	1934	78.9	30.1	0.1	—	48.7
Far Eastern Coalfields	1933	44.9	0.1	—	8.7	36.1
	1934	54.2	0.6	0.2	9.7	43.7
Central Asia Coalfields	1933	46.5	2.7	6.0	1.4	36.4
	1934	59.7	1.4	4.1	1.0	53.2
Karaganda Coalfield	1933	3.9	3.9	—	—	—
	1934	30.4	19.1	—	—	11.3

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1) See footnote 1, Table 6.

2) Coal blasted with mechanical drilling of holes and coal mined without undercutting but loaded mechanically.

Table 8

Mechanization of Coal Loading and Haulage (from Coal Face to Main Drive)[1]

Coalfields	Year	Mechanized loading and haulage					Non-mechanized loading and haulage		
		Total	Including: coal loaded and hauled by				Total	Including:	
			Conveyors	Scrapers	Trams brought to very coal face	Gravity chutes		By trams brought to very coal face	By shovels and other hand-loading devices
		Per cent of total coal loaded							
A	B	1	2	3	4	5	6	7	8
Total U. S. S. R.	1932	72.8	35.8	4.1	1.7	31.2	27.2	14.6	12.6
	1933	74.9	38.6	3.6	2.1	30.6	25.1	13.6	11.5
	1934	76.0	41.1	3.4	1.2	30.3	24.0	14.1	9.9
Donetz Coalfield	1933	84.6	47.2	4.7	0.3	32.4	15.4	4.3	11.1
	1934	85.4	49.3	3.8	0.4	31.9	14.6	4.6	10.0
Sub-Moscow Coalfield	1933	34.0	9.2	—	24.8	—	66.0	66.0	—
	1934	28.4	14.0	2.0	12.4	—	71.6	71.6	—
Ural Coalfields	1933	69.2	33.0	7.8	—	28.4	30.8	22.2	8.6
	1934	78.6	43.0	12.3	0.3	23.0	21.4	12.3	9.1
Kuznetsk Coalfield	1933	80.1	26.6	—	2.5	51.0	19.9	5.2	14.7
	1934	75.9	23.4	0.3	0.4	51.8	24.1	13.9	10.2
East Siberian Coalfields	1933	19.6	10.3	—	—	9.2	80.5	80.1	0.4
	1934	25.9	17.7	—	0.1	8.1	74.1	73.4	0.7
Far Eastern Coalfields	1933	31.2	12.0	—	1.6	17.6	68.8	55.7	13.1
	1934	46.8	22.0	—	1.3	23.5	53.2	45.1	8.1
Central Asia Coalfields	1933	28.5	19.7	—	—	8.8	71.5	42.4	29.1
	1934	33.9	27.8	0.2	—	5.9	66.1	30.8	35.3
Karaganda Coalfield	1933	25.8	25.7	0.1	—	—	74.2	1.9	72.3
	1934	48.9	45·2	—	—	3.7	51.1	10.2	40.9

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[1] See footnote 1, Table 6.

Table 9

Mechanization of Coal Haulage (from Main Drive to Cage)[1]

Coalfields	Year	Mechanized coal haulage			Hauled by horse	Hand-hauled
		Total	By electric locomotives	By rope-way		
		Per cent of total coal haulage				
A	B	1	2	3	4	5
Total U. S. S. R.	1932	19.6	7.8	11.8	68.9	11.5
	1933	36.9	12.9	24.0	52.0	11.1
	1934	40.5	17.7	22.8	47.1	12.4
Donetz Coalfield	1933	40.5	12.2	28.3	51.4	8.1
	1934	41.3	16.4	24.9	47.0	11.7
Sub-Moscow Coalfield	1933	67.3	—	67.3	14.3	18.4
	1934	76.6	5.3	71.3	12.8	10.6
Ural Coalfields	1933	49.0	38.9	10.1	30.3	20.7
	1934	54.7	39.2	15.5	22.4	22.9
Kuznetsk Coalfield	1933	19.6	18.5	1.1	66.4	14.0
	1934	28.5	27.1	1.4	64.0	7.5
East Siberian Coalfields	1933	18.8	9.3	9.5	80.5	0.7
	1934	34.7	25.5	9.2	63.2	2.1
Far Eastern Coalfields	1933	9.8	4.8	5.0	75.2	15.0
	1934	29.2	4.5	24.7	59.5	11.3
Central Asia Coalfields	1933	—	—	—	86.3	13.7
	1934	—	—	—	86.9	13.1
Karaganda Coalfield	1933	—	—	—	20.8	79.2
	1934	—	—	—	26.3	73.7

Table 10

Concentration of Coal Mining in the Donetz Basin

Year	Mines grouped according to annual output				
	20.1—50 thousand ton	50.1—100 thousand ton	100.1—200 thousand ton	200.1—500 thousand ton	Over 500 thousand ton
	Per cent of total output				
A	1	2	3	4	5
1927-28	14.3	22.7	32.5	27.8	2.7
1932	5.2	15.1	32.1	37.3	10.3
1934	2.6	12.0	22.6	42.2	20.6

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[1] See footnote 1, Table 6.

Concentration of

Coalfields	Year	Mines grouped		
		20.1 to 50.0 thousand ton		
		Number of mines	Per cent of total number of mines in coalfield	Per cent of annual output to total output of coalfield
A	B	1	2	3
Total U. S. S. R.	**1932**	**92**	**20.9**	**5.4**
	1933	**79**	**16.5**	**3.9**
	1934	**68**	**13.5**	**2.6**
Donetz Coalfield	1932	64	20.2	5.2
	1933	53	16.1	3.8
	1934	46	13.6	2.6
Sub-Moscow Coalfield	1932	6	23.1	9.6
	1933	8	21.1	7.3
	1934	7	17.1	5.6
Ural Coalfields	1932	10	55.6	14.8
	1933	5	20.8	5.6
	1934	4	14.3	3.3
Kuznetsk Coalfield	1932	2	6.5	0.8
	1933	2	5.7	0.9
	1934	1	2.6	0.4
East Siberian Coalfields	1932	1	7.1	1.8
	1933	1	7.1	1.7
	1934	1	7.1	0.9
Far Eastern Coalfields	1932	6	31.6	10.9
	1933	6	31.6	9.9
	1934	6	27.3	7.9
Central Asia Coalfields	1932	2	25.0	8,9
	1933	3	30.0	15.0
	1934	1	11.1	4.9
Karaganda Coalfield	1932	1	12.5	6.4
	1933	1	11.1	3.8
	1934	2	18.2	3.7

Table 11

Coal Mining

according to annual output

50.1 to 100.0 thousand ton			100.1 to 200.0 thousand ton			200.1 to 500.0 thousand ton			Over 500 thousand ton		
Number of mines	Per cent of total number of mines in coalfield	Per cent of annual output to total output of coalfield	Number of mines	Per cent of total number of mines in coalfield	Per cent of annual output to total output of coalfield	Number of mines	Per cent of total number of mines in coalfield	Per cent of annual output to total output of coalfield	Number of mines	Per cent of total number of mines in coalfield	Per cent of annual output to total output of coalfield
4	5	6	7	8	9	10	11	12	13	14	15
124	28.1	14.5	131	29.7	30.8	82	18.6	38.0	12	2.7	11.3
145	30.3	14.2	135	28.2	27.0	102	21.3	39.8	18	3.7	15.1
138	27.5	11.5	141	28.1	22.9	127	25.3	42.0	28	5.6	21.0
92	29.0	15.1	96	30.3	32.1	57	18.0	37.3	8	2.5	10.3
102	30.9	14.7	93	28.2	27.0	70	21.2	39.7	12	3.6	14.8
97	28.6	12.0	93	27.4	22.6	85	25.1	42.2	18	5.3	20.6
8	30.8	21.1	10	38.4	51.8	2	7.7	17.5	—	—	—
15	39.5	27.7	11	28.9	37.9	4	10.5	27.1	—	—	—
13	31.7	21.2	16	39.0	44.7	5	12.2	28.5	—	—	—
1	5.6	2.4	2	11.1	13.9	4	22.2	46.9	1	5.5	22.0
9	37.5	18.3	3	12.5	11.0	6	25.0	47.9	1	4.2	17.2
10	35.7	15.9	6	21.4	16.4	7	25.0	50.5	1	3.6	13.9
5	16.1	5.3	9	29.0	17.1	12	38.7	49.9	3	9.7	26.9
5	14.3	3.6	9	25.7	15.8	14	40.0	46.7	5	14.3	33.0
4	10.5	2.9	12	31.6	17.7	14	36.9	37.1	7	18.4	41.9
4	28.6	15.2	5	35.7	34.6	4	28.6	48.4	—	—	—
3	21.4	7.0	6	42,9	44.7	4	28.6	46.6	—	—	—
2	14.3	4.0	2	14.3	8.4	8	57.2	70.5	1	7.1	16.2
5	26.3	18.9	6	31.6	38.4	2	10.5	31.8	—	—	—
4	21.0	12.5	6	31.6	42.3	3	15.8	35.3	—	—	—
6	27.3	13.6	5	22.7	25.1	5	22.7	53.4	—	—	—
4	50.0	41.7	2	25.0	49.4	—	—	—	—	—	—
4	40.0	34.8	3	30.0	50.2	—	—	—	—	—	—
4	44.5	27.6	3	33.3	42.9	1	11.1	24.6	—	—	—
5	62.5	45.7	1	12.5	17.8	1	12.5	30.1	—		—
3	33.3	20.0	4	44.5	46.3	1	11.1	29.9	—	—	—
2	18.2	9.0	4	36,3	32.8	2	18.2	25.3	1	9.1	29.2

Number of Coal Cutting Machines and Chipping Hammers Available

(As at end of year)

Type of Machinery	Coalfields								
	Donetz Coalfield	Sub-Moscow Coalfield	Ural Coalfields	Kuznetsk Coalfield	East Siberian Coalfields	Far Eastern Coalfields	Central Asia Coalfields	Karaganda Coalfield	Total
A	1	2	3	4	5	6	7	8	9
Heavy-duty cutting machines									
1928	530	6	13	—	—	—	—	—	549
1929	711	2	22	21	5	—	—	—	761
1930	927	2	46	25	7	—	—	—	1,007
1931	1,135	40	49	38	16	—	—	—	1,278
1932	1,299	27	57	55	25	3	6	1	1,473
1933	1,481	31	61	49	30	5	7	15	1,679
1934	1,541	27	63	47	35	4	8	29	1,754
Light-duty cutting machines									
1928	177	—	91	—	—	—	—	—	268
1929	208	—	160	22	3	—	—	—	393
1930	215	—	135	37	1	19	2	—	409
1931	148	—	116	42	1	5	10	[1])	322
1932	145	1	112	44	—	9	18	10	339
1933	107	5	128	16	—	6	22	10	294
1934	96	5	164	19	6	4	25	8	327
Chipping hammers									
1928	60	11	—	—	—	—	—	—	71
1929	1,152	44	—	68	10	—	—	—	1,274
1930	2,727	260	—	258	61	16	—	—	3,322
1931	4,542	570	75	797	67	108	31	—	6,190
1932	5,202	780	541	1,526	61	693	78	139	9,020
1933	5,729	994	1.180	2,007	[1])	632	92	130	10,764
1934	6,395	1,316	1,706	2,686	1	689	29	109	12,931

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[1]) No data available.

Table 13

Utilization of Heavy-Duty Cutting Machines

Coalfields	Year	Average annual number of available machines	Of which: in actual use underground	Average number of operations per machine-shift [1]	Average output per machine-shift (tons)		
					Total	Output from stoping face	Output from open pit
A	B	1	2	3	4	5	6
Total U. S. S. R.	1932	1,374	1,066	384	47.9	53 6	23.9
	1933	1,532	1,190	432	46.7	52 3	24.0
	1934	1,699	1,300	438	51.5	57.1	25.8
Donetz Coalfield	1932	1,216	965	410	46.9	51.5	25.4
	1933	1,349	1,059	446	45.6	50.1	25.5
	1934	1,498	1,159	449	50.3	54.7	27.3
Sub-Moscow Coalfield	1932	26	20	375	25.7	95.3	8.1
	1933	30	21	509	27.1	87.4	11.8
	1934	31	24	507	30.3	74.5	11.2
Ural Coalfields	1932	58	28	[2]	48.3	50.3	17.7
	1933	59	39	369	46.1	47.2	22.2
	1934	61	40	390	48.5	49.3	24.1
Kuznetsk Coalfield	1932	48	27	248	90.6	133.7	16.0
	1933	48	35	276	101.7	140.4	15.7
	1934	47	31	317	102.2	135.2	14.4
Karaganda Coalfield	1932	1	1	14	166.1	166.1	—
	1933	15	6	17	168.3	168.3	—
	1934	30	15	80	144.2	151.4	33.9
East Siberian Coalfields	1932	24	24	305	77.2	113.7	32.5
	1933	28	28	323	67.0	124.9	28.9
	1934	29	29	530	68.8	110.4	31.2
Central Asia Coalfields	1932	1	1	2	45.0	45.0	—
	1933	3	2	53	134,4	134.4	—
	1934	3	2	75	59.1	59.1	—

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1) All available heavy-duty cutting machines are accounted for.

2) No data available.

Table 14

Utilization of Chipping-Hammers

Coalfields	Year	Average annual number of available chipping-hammers	Of which: in actual use underground	Average number of operations per machine-shift[1]	Average output per chipping-hammer-shift (tons)		
					Total	Output from stoping face	Output from open pit
A	B	1	2	3	4	5	6
Total U. S. S. R.	1932	5,863	3,257	182	5.43	6.01	3.92
	1933	8,317	4,446	163	5 88	6.46	4.48
	1934	9,958	5,940	173	6.32	7.18	4 24
Donetz Coalfield	1932	4,868	2,509	170	5.11	5.63	3.14
	1933	5,380	3,050	182	5.45	5.97	3.49
	1934	5,709	3,442	194	5,71	6.32	3.40
Sub-Moscow Coalfield	1932	[2]	308	[2]	8.20	9,66	6.47
	1933	906	467	144	9.47	10.73	8.16
	1934	957	697	166	9.12	10.44	7.08
Ural Coalfields	1932[3]	178	94	[2]	5.14	5.51	4.46
	1933	737	397	162	5.07	5.58	4.44
	1934	1,377	1,024	177	5.55	6.98	3.79
Kuznetsk Coalfield	1932	775	340	140	5.63	7.50	4.21
	1933	1,234	525	96	6.38	9.60	4.17
	1934	1,903	765	108	8.34	11.62	4.92
Central Asia Coalfields	1932	42	6	85	2.89	4.55	2.59
	1933	60	7	46	2.71	4.60	2.35
	1934	12	12	165	4.82	6.58	4.56

[1] All available chipping-hammers are accounted for.
[2] No data available.
[3] Exclusive of Cheliabinsk Coalfield.

5. PETROLEUM INDUSTRY

Table 1

Summary for the Petroleum Industry

Year	Fixed capital of all petroleum industry, as at end of respective year (millions of rubles)	Capacity of all prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)		Average annual number of wage-earners		Gross output in prices of 1926-27 (millions of rubles)	
		Crude petroleum production	Petroleum refining	Crude petroleum production	Petroleum refining	Crude petroleum production	Petroleum refining
A	1	2	3	4	5	6	7
1926	453.5	240.5	10.4	26,768	6,308	217	284
1927	510.9	248.0	15.4	25,395	6,560	252	322
1928	628.2	260.2	21.5	24,341	6,973	300	386
1929	708.8	251.7	33.2	24,480	7,370	352	503
1930	925.3	243.7	46.7	25,534	9,647	424	718
1931	1,114.1	293.1	54.5	28,735	10,344	520	905
1932	1,230.5	316.5	54.8	20,999	11,408	492	976
1933	1,422.4	313.9	59.4	25,167	12,369	497	990
1934	1,720.5	364.6	78.6	26,558	13,941	589	1,085

Table

Production Costs in the Petroleum Industry Itemized

(Per cent of total)

Year and Branch of ndustry	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1. Crude petroleum production 1932 .	8.4	3.5	42.5	24.2	5.1	16.3	100.0
1934 .	8.9	3.1	41.5	26.7	5.9	13.9	100.0
2. Petroleum refining 1932 .	70.1	4.7	6.8	10.1	2.1	6.2	100.0
1934 .	75.5	4.8	5.0	7.8	1.8	5.1	100.0

Table 3

Power Supply in the Petroleum Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
I. Crude Petroleum Production								
Capacity of prime movers [1]	Thousands of kw	50.1	42.4	26.5	54.8	59.6	50.7	71.4
Capacity of electric generators [1]	„	8.0	7.2	9.8	6.4	9.1	11.8	15.3
Capacity of electric motors [1]	„	218.1	216.5	227.0	244.7	266.0	275.0	308.5
Including: Capacity of electric motors utilizing purchased power	„	209.3	206.9	219.2	234.6	257.5	263.5	295.0
Capacity of prime movers and electric motors driving operating machinery [1]	„	260.2	251.7	243.7	293,1	316.5	313.9	364.6
Power generated by prime movers	Millions of kw-hours	101.1	77.2	72.7	107,8	127.5	130.3	125.5
Power generated by electric generators	„	8.7	10.0	6.9	13.6	22.9	31.2	29.3
Purchased power	„	253.0	269.3	346.6	396.6	405.6	523.3	621.2
Sale of power	„	1.8	3.1	7.9	10.4	14.3	84.7	119.0
Total consumption of power [2]	„	352.3	343.4	411.4	494.0	518.8	568.9	627.7
a) Electric energy	„	259.9	276.2	345.6	399.8	414.2	469.8	531.5
Electric energy used as motive power	„	248.8	263.5	337.7	390.5	395.8	439.7	506.7
b) Mechanical energy used for driving operating machinery	„	91.5	66.1	65.1	92.8	102.1	95.6	93.0
Coefficient of centralization of electric power supply	—	96.7	96.4	98.1	96.7	94.7	94.4	95.5
Coefficient of electrification of industrial processes	—	73.1	79.9	83.8	81.0	79.5	82.2	84.6
Total power supply per worker	Kw-hours per man-hour	4.98	5.76	6.54	7.26	8.45	9.06	9.51
Electric power supply per worker	„	3.68	4.64	5.49	5.88	6.74	7.52	8.07

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[1] As at end of year.

[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 8 (Continued)

Power Supply in the Petroleum Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
II. Petroleum Refining								
Capacity of prime movers [1])	Thous. of kw	11.4	20.2	24.6	29.8	30.2	30.1	41.7
Capacity of electric generators [1])	"	4.6	7.8	7.2	10.3	10.8	10.5	15.5
Capacity of electric motors [1])	"	14.7	20.8	29.3	35.0	35.4	39,8	52.4
Including: Capacity of electric motors utilizing purchased power	"	13.3	12.9	25.4	29.9	27.0	31.4	41.4
Capacity of prime movers and electric motors driving operating machinery [1])	"	21.5	33.2	46.7	54.8	54.8	59.4	78.6
Power generated by prime movers	Millions of kw-hours	15.6	24.8	37.0	49.2	55.1	81.6	78.7
Power generated by electric generators	"	7.7	9.5	16.9	23.9	27.5	28.2	31.9
Purchased power	"	17.5	25.1	43.6	59.6	67.7	85.2	103.9
Sale of power	"	1.1	2.0	3.4	6.4	8.0	9.7	10.3
Total consumption of power [2])	"	32.0	47.9	77.2	102.4	114.8	157.1	172.3
a) Electric energy	"	24.1	32.6	57.1	77.1	87.2	103.7	125.6
Electric energy used as motive power	"	19.2	20.1	51.0	66.8	75.8	91.6	100.6
b) Mechanical energy used for driving operating machinery	"	7.0	14.3	18.3	22.7	24.5	50.3	43.3
Coefficient of centralization of electric power supply	—	69.4	72.5	72.1	71.4	71.1	75.2	76.5
Coefficient of electrification of industrial processes	—	73.2	67.4	73.6	74.7	75.6	64.7	72.2
Total power supply per worker	Kw-hrs per man-hour	2.25	3.07	3.90	4.99	5.12	5.58	6.40
Electric power supply per worker	"	1.69	2.09	2.88	3.76	3.89	4.35	4.66

Table 4

Output of Petroleum Products in Physical Units

(Thousands of tons)

Products	1913	1927-28	1928-29	1930	1931	1932	1933	1934	1935[1]
A	1	2	3	4	5	6	7	8	9
Crude oil	9,234.1	11.472.2	13,509.0	18,450.5	22,391.9	21,413.2	21,489.1	24,218.0	25,239.9
Natural gas[2]	—	277.0	300.9	472.6	769.9	905.5	968.9	1,394.1	1,555.1
Total crude oil and gas	9,234.1	11,749.2	13,809 9	18,923.4	23.161.8	22.318.7	22,458.0	25,612.1	26,795.0
Crude oil runs to stills	5,702.3	8,882.2	11,034.0	16,172.5	19,919.9	20,214.5	18,455.5	20,300.4	21,515.0
Refined petroleum products									
Benzine	156.3	752.0	1,089.7	1,654.0	2,213.9	2,459.1	2.168.9	2,309.9	2,430.4
Including: Benzine obtained by cracking	—	—	1.8	39.1	405.7	592.6	680.6	833.6	1,136.1
Ligroin	—	129.8	173.0	305 9	541.7	422.3	486.4	463.4	573.4
Refined kerosene	1,520.5	1,912.0	2,316.8	3,231.0	3,861.3	3,560.3	3,821.9	4,461 8	4.876.9
Lubricating oil—total	337.4	331.1	374.9	487.4	652.5	680,0	1,133.4	1,372.1	1,345.0
Asphalt	[3]	7.7	38 5	72.7	71.1	108.3	146.2	206.9	220.8
Parafin wax	—	—	6.2	8 5	11.6	15.3	18.7	30.8	33.3
Gas oil	—	221.9	351.9	656.4	891.9	714.7	866.1	584.3	480.5
Fuel oil (mazout)	[3]	4,095.9	5,315.4	7,610.9	8,942.0	8,469.5	6,503.5	8,519.4	8,568.3

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[1] Preliminary data.
[2] Prior to 1932 inclusive of circulation gas output of the Grozny Petroleum Trust (107,800 tons in 1933)
[3] No data available.

Table 5

Output of Crude Oil and Natural Gas: By Republics, Regions and Territories

(Thousands of tons)

Republics, Regions and Territories	1913	1927-28	1932	1933	1934	1935 [1]
A	1	2	3	4	5	6
U. S. S. R.	9,234.1	11,749.2	22,318.7	22,458.0	25,612.1	26,795.0
I. R. S. F. S. R.	1,412.6	4,048.6	9,531.0	6,264.8	5,258.8	5,581 9
Sverdlovsk Region	—	—	6.0	14.4	12.2	8.0
Bashkir A.S.S.R.	—	—	4.6	21.9	62 6	405.8
Azov-Black Sea Territory	86.8	107.1	1,015.4	766.0	1,154.4	1,333.6
Northern Caucasus Territory [2]	1,208.2	3,690.5	8,073.1	5,060.3	3,527.1	3,296.2
Kazakhstan A.S.S.R.	117.6	251.0	249.0	198.1	243.3	272.1
Far Eastern Territory	—	—	182.9	196.4	241.8	239.5
Northern Territory	—	—	—	7.7	17.4	26.7
II. Transcaucasian S. F. S. R.	7,669.1	7,664.2	12,688.1	15,986.8	20,275.2	20,714.5
Azerbaidjan S.S.R.	7,669.1	7,664.2	12,684.1	15.981.5	20,269.1	20,707.1
Georgian S.S.R.	—	—	4.0	5.3	6.1	7.4
III. Uzbek S. S. R.	152.4	17.7	46 8	35.8	45.8	498.6
IV. Turkmenian S. S. R.		7.8	33.9	154.7	16.0	
V. Tadjik S. S. R.		10.9	18.9	15.9	16.3	

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[1] Preliminary data.
[2] See Footnote 2 to Table 4.

Table 6

Output of the Petroleum Refining Industry

(In thousands of tons)

Products	1928-29	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
Benzine, rectified	1,060.0	1,559 8	1,729.2	1,771.0	1,401.4	1,410.8
Benzine obtained by cracking	1.8	39.1	405.7	592.6	680.6	833.6
Benzine obtained from natural gas	27.9	55.1	79.0	95.5	86.9	65.5
Total benzine	1,089.7	1,654.0	2,213.9	2,459.1	2,168.9	2,309.9
Ligroin	173.0	305.9	541.7	422.3	486.4	463.4
Including: Special ligroin (white spirit)	0.6	3.4	40.1	82.7	13.8	30.1
Total benzine-ligroin fractions	1,262.7	1,959.9	2,755.6	2,881.4	2,655.3	2,773.3
Refined kerosene	2,316.8	3,231.0	3,861.3	3,560.3	3,821.9	4,461.8
Lubricating oils	374.9	487.4	652.5	680.0	1,133.4	1,372.1
Solar oil	76.0	91.5	63.8	96.7	163.8	159.9
Gas oil	351.9	656.4	891.9	714.7	866.1	584.3
Black oil	93.7	118.1	92.7	216.6	37.1	40.7
Black solar oil and mixed solar oils	456.7	648.3	907.2	1,045.7	648.7	341.4
Polymeres and bottoms	0.3	15.1	110.1	279.8	235.0	134.6
Motor and Diesel fuel oil	1.7	64.2	102.2	30.9	165.3	436.2
Heavy fuel oil (mazout)	5,315.4	7,610.9	8,942 0	8,469.5	6,503.5	8,519.4
Dry cracking gas	13.6	53.5	137.1	234 2	234.3	411.1
Asphalt	38.5	72.7	71.1	108.3	146.2	206.9
Paraffin wax	6.2	8.5	11.6	15.3	18 7	30.8
Vaseline	1.2	1.1	1.3	0.7	0.2	2.6
Technical greases	20.5	13.5	12.1	16.1	14.0	14.7
Soap-lye crudes	1)	1)	16.0	9.9	3.6	4.5
Acid oil	1)	1)	6 0	4.7	0.3	1.1
Acid oil (soap-lye crude)	1)	1)	1)	7.0	16.9	24.9
Contact oil (for splitting up fats)	1)	1)	1.7	2.2	0.7	5.2
Greases	1)	1)	1.0	1.9	1.4	0.9

Table 7

Petroleum Refining: By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	Crude oil runs to stills				
	1913	1927-28	1932	1933	1934
A	1	2	3	4	5
U. S. S. R.	5,702.3	8,882.2	20,214.5	18,455.5	20,300.4
I R. S. F. S. R.	1,147.9	3,581.8	8,676.0	6,051.0	6,756.0
Northern Caucasus Territory	946.4	3,260.0	6,606.5	4,282.0	4,861.6
Azov-Black Sea Territory	49.8	92.5	1,769.9	1,471.8	1,612.3
Moscow Region	151.7	—	11.7	3.3	0.1
Ivanovo Industrial Region		163.5	199.2	195.7	171.1
Gorky Territory		65.8	88.7	98.2	110.9
II. Transcaucasian S.F.S.R.	4,554.4	5,278.4	11.493 9	12,362 4	13,499.5
Azerbaidjan S.S.R.	4,554.4	5,278.4	8,634.0	9,309.4	10,353.8
Adjaristan A.S.S.R.	—	—	2,859.9	3,053.0	3,145.7
III. Tadjik S. S. R.	—	10.6	15.3	13.4	12.8
IV. Uzbek S. S. R.	—	11.4	29.3	28.7	32.1

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1) No data available.

Output of Light Oil Products: By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	Benzine (motor spirit)				Including: benzine obtained by cracking				Kerosene			
	1913	1927-28	1932	1934	1913	1927-28	1932	1934	1913	1927-28	1932	1934
A	1	2	3	4	5	6	7	8	9	10	11	12
U. S. S. R.	156.3	752.0	2,459.1	2,309.9	—	—	592.6	833.6	1,520.5	1,912.0	3,560.3	4,461.8[1]
I. R. S. F. S. R.	132.5	467.9	1,806.7	1,347.2	—	—	377.2	540.3	174.2	591.8	1,539.5	1,672.5
Northern Caucasus Territory	121.3	459.2	1,192.4	786.9	—	-	302.3	394.4	109.7	537.4	1,180.8	1,334.7
Azov-Black Sea Territory	11.2	8.7	599.1	503.9	—	—	59.7	89.5	13.6	14.4	323.4	320.4
Saratov Territory	—	—	—	35.4	—	—	—	35.4	—	—	—	—
Moscow Region	—	—	15.2	21.0	—	—	—	—	50.9		2.3	—
Ivanovo Region	—	—	—	—	—	—	15.2	21.0		40.0	27.9	0.2
Gorky Territory	—	—	—	—	—	—	—	—			5.1	17.2
II. Transcaucasian S. F. S. R.	23.8	283.2	647.4	958.1	—	—	215.4	293.3	1,346.3	1,316.7	2,016.1	3,097.6
Azerbaidjan S.S.R.	23.8	283.2	380.3	622.3	—	--	96.2	118.2	1,346.3	1,316.7	1,419.4	2,423.6
Adjaristan A.S.S.R.	—	—	267.1	335.8	—	—	119.2	175.1	—	—	596.7	674.0
III. Tadjik S. S. R.	—	0.5	2.2	1.7	—	—	—	—	—	2.2	0.2	2.0
IV. Uzbek S. S. R.	—	0.4	2.8	2.9	—	—	—	—	—	1.3	4.5	4.4

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[1] The total for the U.S.S.R. differs somewhat from the total for individual Republics, as the former figure is exclusive of oil products manufactured (partly refined) in one Republic or Region and subjected to further refining in other Republics or Regions.

Table 9

Output of Lubricating Oils: By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	Total lubricating oils				
	1913	1927-28	1932	1933	1934
A	1	2	3	4	5
U. S. S. R.	**337.4**	**331.1**	**680.0**	**1,133.4**	**1,372.1 1)**
I. R. S. F. S. R.	25.6	48.6	118.0	117.3	134.7
Northern Caucasus Territory	0.1	5.1	29.4	38.1	37.8
Azov-Black Sea Territory	—	0.9	—	—	—
Moscow Region	25.5	42.6	6.4	3.7	2.1
Ivanovo Region			51.2	45.1	50.5
Gorky Territory			22.9	21.0	29.5
Leningrad Region			8.1	9.4	14.8
II. Transcaucasian S. F. S. R.	311.8	282.5	561.8	1,015.9	1,237.8
Azerbaidjan S.S.R.	311.8	282 5	561.8	946.1	1,139.2
Adjaristan A.S.S.R.	—	—	—	69.8	98.6
III. Uzbek S. S. R	—	—	0.2	0.2	0.1

Table 10

Output of Fuel Oil (Mazout): By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	1927-28	1932	1933	1934
A	1	2	3	4
U. S. S. R.	**4,095.9**	**8,469.5**	**6,503.5 1)**	**8,519.4 1)**
I. R. S. F. S. R.	2,035.6	3,627.1	2,234.3	2,720.8
Northern Caucasus Territory	1,902.3	2,751.2	1,558.3	1,966.3
Azov-Black Sea Territory	34.7	776.6	552.2	559.6
Moscow Region	—	1.5	1.6	0.8
Ivanovo Region	98.6	48.3	55.4	64.7
Gorky Territory		44.8	61.8	56.0
Leningrad Region		4.7	5.0	5.3
Saratov Territory	—	—	—	68.1
II. Transcaucasian S. F. S. R.	2,043.7	4,813.4	4,256.0	5,896.2
Azerbaidjan S.S.R.	2,043.7	3,457.5	2,949.8	4,501.9
Adjaristan A.S.S.R.	—	1,355.9	1,306.2	1,394.3
III. Tadjik S. S. R.	7.3	8.9	8.3	8.3
IV. Uzbek S. S. R.	9.3	20.1	21.5	23.5

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1) See Footnote to Table 8.

Table 11

Oil Extraction: By Methods

Republics, Regions and Territories	Year	Total extraction of petroleum (in thousands of ton)	Methods of extraction (per cent of total)				
			Gushers	Deep pumping	Compressors	Bailing	Other methods
A	B	1	2	3	4	5	6
U. S. S. R.	1913	9.234.1	4.4	1)	1)	1)	—
	1927-28	11.472.2	40.0	33.4	18.4	6.9	1.3
	1928 29	13.509.0	44.1	32.0	18.6	3.9	1.4
	1930	18,450.8	47.7	26 9	22.9	1.8	0.7
	1931	22 391.9	42 2	21.9	33 9	1.1	0.9
	1932	21,413 2	24.3	22.1	51.3	0.5	1.8
	1933	21,489.1	30 6	22.8	43.8	0.4	2.4
	1934	24,218.0	25.8	24.8	47 1	0.3	2.0
Azerbaidjan S.S.R.	1913	7,669.1	4.2	1)	1)	1)	—
	1927-28	7,504.3	25.7	36.6	27.6	8.9	1.2
	1932	12 233.5	17.0	24.7	56.3	1.0	1.0
	1933	15,374.5	33.7	19.7	45.0	0 6	1.0
	1934	19,236.8	27.4	18.8	52.4	0.3	1.1
Northern Caucasus Territory	1913	1,208.2	6.8	1)	1)	1)	—
	1927-28	3,576.3	74.1	21.7	0.1	2.8	1.3
	1932	7,709.7	30.9	16.5	49.4	—	3.2
	1933	4,862.2	17.9	29.5	45.2	—	7.4
	1934	3,370.2	12.0	55.3	24.8	—	7.9
Azov-Black Sea Territory	1913	86.8	—	—	—	100.0	—
	1927-28	105.7	2.1	64.1	--	33.3	0.5
	1932	930.1	72.3	2.9	24.6	—	0.2
	1933	607.8	55.0	3.9	40.5	—	0.6
	1934	954.3	47.8	3.7	47.9	0.2	0.4
Georgian S.S.R.	1933	5.3	3.8	77.4	—	13.2	5.6
	1934	6.1	—	52.5	—	37.7	9.8
Uzbek S.S.R.	1933	34.0	8.1	68.6	13.4	8.2	1.7
	1934	43.7	8.7	71.2	18.8	1.3	—
Turkmenian S.S.R.	1933	154.7	93.2	6.8	—	—	—
	1934	16.0	18.1	81.9	—	—	—
Tadjik S.S.R.	1933	15.2	—	88.8	—	9.2	2.0
	1934	15.3	—	88.2	—	10.5	1.3
Bashkir A.S.S.R.	1933	20.5	100 0	—	—	—	—
	1934	62.6	99.2	0.8	—	—	—
Sverdlovsk Region	1934	12.2	—	100.0	—	—	—
Kazakhstan A.S.S.R.	1933	196.4	—	84.9	13.5	—	1.6
	1934	241.6	22.1	64.9	10.2	—	2.8
Far Eastern Territory	1933	196.4	—	94.1	—	5.6	0.3
	1934	241.8	—	98.8	—	0.3	0.9
Northern Territory	1933	7.7	—	100.0	—	—	—
	1934	17.4	—	100.0	—	—	—

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1) Prior to the Revolution pumping and compressors were used only on a smallscale in the Baku and Grozny oil fields, bailing being the predominant method. The output for the first two methods was never adequately computed, but may be placed approximately at 5 per cent of the total output.

Table 12

Drilling: Classified According to Purpose and Method

Republics, Regions and Territories	Year	Total drilled (thousands of meters)	Of which:					
			According to purpose (per cent)			According to method of drilling (per cent)		
			Exploitation	Exploitation and prospecting	Prospecting	Rotary drilling	Turbine drilling	Percussion drilling
A	B	1	2	3	4	5	6	7
U. S. S. R.	1913	276.6	1)	1)	1)	2)	—	2)
	1927-28	362.1	80.9	12.8	6.3	70.7	2.0	27.3
	1928-29	446.0	72.1	19.0	8.9	78.8	2.4	18.8
	1930	639.3	68.0	15.3	16.7	85.4	2.0	12.6
	1931	707.4	63.3	17.4	19.3	88.8	1.9	9.3
	1932	744.6	67.8	14.4	17.8	94.1	2.6	3.3
	1933	835.5	67.2	18.4	14.4	97.3	1.1	1.6
	1934	1,254.8	69.4	18.4	12.2	98.4	0.9	0.7
Azerbaidjan S.S.R.	1913	171.8	1)	1)	1)	2)	—	2)
	1927-28	260.6	88.3	8.7	3.0	81.8	2.5	15.7
	1932	478.5	82.7	11.6	5.7	95.9	3.9	0.2
	1933	528.5	77.5	17.8	4.7	98.3	1.6	0.1
	1934	790.9	79.4	13.4	7.2	99.5	0.5	—
Northern Caucasus Territory	1913	62.9	1)	1)	1)	2)	—	2)
	1927-28	74.7	68.1	23.3	8.6	48.5	0.7	50.8
	1932	101.1	62.6	25.4	12.0	94.3	0.4	5.3
	1933	137.5	71.4	18.6	10.0	97.0	0.7	2.3
	1934	243.8	62.0	26.9	11.1	96.6	3.0	0.4
Azov-Black Sea Territory	1913	30.9	1)	1)	1)	—	—	100.0
	1927-28	11.7	46.2	28.2	25.6	17.1	—	82.9
	1932	49.0	31.1	23.3	45.6	94.8	—	5.2
	1933	47.2	52.2	21.4	26.4	96.1	—	3.9
	1934	65.9	61.3	20.3	18.4	95.3	—	4.7
Georgian S.S.R.	1933	12.1	27.4	45.6	27.0	100.0	—	—
	1934	16.3	29.4	20.9	49.7	100.0	—	—
Uzbek S.S.R.	1933	13.1	14.5	42.3	43.2	82.2	—	17.8
	1934	15.4	58.4	27.3	14.3	96.8	—	3.2
Turkmenian S.S.R.	1933	2.5	24.4	18.3	57.3	86.5	—	13,5
	1934	5.2	30.8	32.7	36.5	95.7	—	4.3
Tadjik S.S.R.	1933	6.3	47.2	32.2	20.6	53.7	—	46.3
	1934	7.7	44.2	14.3	41.5	85.7	—	14.3
Bashkir A.S.S.R.	1933	22.5	19.4	10.6	70.0	100.0	—	—
	1934	29.5	36.9	32.9	30.5	100.0	—	—
Sverdlovsk Region	1933	11.1	—	—	100.0	100.0	—	—
	1934	9.7	33.0	16.5	50.5	100.0	—	—
Kazakhstan A.S.S.R.	1933	36.3	24.5	10.0	65.5	100.0	—	—
	1934	47.0	19.4	30.0	50.6	100.0	—	—
Far Eastern Territory	1933	18.3	52.8	27.6	19.6	89.0	—	11.0
	1934	20.8	45.7	47.1	7.2	89.1	—	10.9
Kirghiz A.S.S.R.	1933	1.3	—	—	100.0	61.5	—	38.5
Crimean A.S.S.R.	1934	2.3	—	—	100.0	100.0	—	—

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1) No data available.

2) The number of meters covered by rotary drilling in 1913 can be estimated only approximately at about 2 per cent.

Drilling Speed: According to Drilling Method

(Monthly average per operating machine, in meters)

Republics, Regions and Territories	Methods of drilling								
	Rotary drilling			Percussion drilling			Total		
	1932	1933	1934	1932	1933	1934	1932	1933	1934
A	1	2	3	4	5	6	7	8	9
U. S. S. R	**115.5**	**121.2**	**172.9**	**42.6**	**48.8**	**65.9**	**108.1**	**118.5**	**157.4**
Northern Caucasus Territory	83.4	100.8	135.3	51.5	46.1	57.7	80.8	98.1	133.9
Azov-Black Sea Territory	111.5	100.8	187.5	32.7	52.0	96.9	99.1	95.6	179.7
Crimean A.S.S.R	—	46.3	79.4	—	—	—	—	46.3	79.4
Kazakhstan A.S.S.R	86.0	74.7	104.9	24.1	—	—	85.6	74.7	104.9
Kirghiz A S.S.R.	—	—	92.4	—	—	35.8	—	—	57.5
Bashkir A.S.S.R.	66.9	93.0	109.0	29.9	—	—	66.4	93.0	109.0
Sverdlovsk Region		167.2	135.4		—	—		167.2	135.4
Far Eastern Territory	189.2	146.1	128.9	60.0	61.5	68.5	109.8	126.8	117.5
Azerbaidjan S.S.R.	139.1	148.3	190.2	16.3	39.7	—	133.1	145.9	188.6
Georgian S.S.R.	69.5	51.5	72.0	21.8	—	—	59.0	51.5	72.0
Uzbek S. S. R.	79.9	74.0	92.2	47,9	41.0	39.3	66.3	64.7	88.4
Turkmenian S. S. R.	77.3	50.2	65.9	42.8	28.8	21.7	56.0	45.7	60.6
Tadjik S. S. R.	60.4	64.5	77.9	48.2	60.4	91.3	52.5	62.5	79.6

Table 14

Drilling Speed: According to Purpose of Drilling

(Monthly average per operating machine, in meters)

Republics, Regions and Territories	Year	Exploitation	Exploitation and prospecting	Prospecting	Total
A	B	1	2	3	4
U. S. S. R.	1913	1)	1)	1)	34.6
	1927-28	62.7	44.2	33.4	56.5
	1928-29	79.4	67.2	46.3	72.3
	1930	104.4	71.5	64.6	89.0
	1931	108.5	80.1	64.3	90.9
	1932	149.2	69 9	67.2	108.1
	1933	156.3	92.0	66.5	118.5
	1934	205.1	107.9	96.6	157.4
Northern Caucasus Territory	1927-28	46.5	56.8	39.5	47.8
	1932	108.6	69.3	40.7	80.8
	1933	140.6	64.3	44.9	98.1
	1934	185.5	96.1	83.7	133.9
Azov-Black Sea Territory	1927-28	85.7	86.8	69.7	81.2
	1932	96.0	153.4	85.5	99.1
	1933	123.8	151.9	56.2	95.6
	1934	247.7	132 1	117.9	179.7
Kazakhstan A.S.S.R.	1927-28	54.1	46.2	46.9	49.3
	1932	102.3	102.4	77.1	85.6
	1933	90.7	62.8	72.1	74.7
	1934	91.5	106.0	110.5	104.9
Bashkir A.S.S.R.	1932	—	—	66.4	66.4
	1933	179.0	149.4	78.1	93.0
	1934	170.0	135.7	66.4	109.0
Sverdlovsk Region	1934	229.0	211.5	98.0	135.4
Far Eastern Territory	1932	115.4	114.9	86.9	109.8
	1933	137.6	136.9	96.5	126.8
	1934	127.7	113.9	90 2	117.5
Azerbaidjan S.S.R.	1913	1)	1)	1)	34.6
	1927-28	68.1	35.4	22.7	59.7
	1932	172.2	59.6	74.3	133.1
	1933	167.7	108.3	79.8	145.9
	1934	218.3	121.4	127.8	188.6
Georgian S.S.R.	1932	—	—	59.0	59.0
	1933	178.7	53.2	29.0	51.5
	1934	124.2	47.7	69.7	72.0
Uzbek S.S.R.	1932	73.2	67.8	58.5	66.3
	1933	96.8	75.1	51.8	64.7
	1934	143.8	65.5	46.3	88.4
Turkmenian S.S.R.	1932	—	—	56.0	56.0
	1933	95.2	35.8	40.3	45.7
	1934	85.4	50.6	54.5	60.6
Tadjik S.S.R.	1932	48.7	57,8	56.7	52.5
	1933	90.9	47,5	51.3	62.5
	1934	160.0	86.7	50.9	79.6

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1) No data available.

Table 15

Output of Crude Petroleum from New Wells[1]

Republics, Regions and Territories	Total output					
	Thousands of tons			Per cent of total output		
	1932	1933	1934	1932	1933	1934
A	1	2	3	4	5	6
U. S. S. R.	**5,791,5**	**6,521.9**	**8,100.8**	**27.6**	**31.2**	**34.2**
Northern Caucasus Territory	1,914.0	400.6	378.8	25.6	8.9	12.2
Azov-Black Sea Territory	309.3	214.5	645.2	33.3	35.5	67.9
Kazakhstan A.S.S.R.	25.7	17.5	69.9	10.5	9.1	29.7
Bashkir A.S.S.R.	4.6	10.0	14.9	100.0	48.7	23.8
Sverdlovsk Region	2.6	9.2	3.2	43.3	63.8	26.2
Far Eastern Territory	61.2	43.3	71.9	33.7	22.1	30.0
Azerbaidjan S.S.R.	3,443.0	5,672.9	6,898.8	28.6	37.4	36.4
Georgian S.S.R.	1.6	2.2	2.4	39.0	44.0	43.6
Turkmenian S.S.R.	22.2	144.2	2.9	65.4	93.2	18.1
Uzbek S.S.R.	5.0	6.9	12.0	11.3	20.6	27.4
Tadjik S.S.R.	2.3	0.6	0.8	13.9	4.0	5.3

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[1] "New wells" are understood to be wells put intos operation during the year covered by report, including wells in operation after deepening

6. PEAT INDUSTRY

Table 1

Summary for the Peat Industry

Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thous. of kW)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
1926	36.4	39.7	43,920	46
1927	57.4	62.2	55,836	64
1928	77.1	81.1	57,915	69
1929	83.8	89.1	62,526	71
1930	125.9	100.2	72,628	83
1931	152.7	117.4	104,838	135
1932	195.1	148.3	123,427	174
1933	252.0	179.1	109,506	160
1934	355.2	208.4	114,673	214

Table 2

Production Costs in the Peat Industry Itemized [1]

(Per cent of total)

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1932	9.5	4.8	6.0	54.0	6.5	19.2	100.0
1934	8.3	8.2	7.9	47.9	6.2	21.5	100.0

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[1] Enterprises of Industrial Commissariats.

Table 3

Power Supply in the Peat Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers [1]	Thous. of kw	23.3	24.1	29.3	32.9	33.4	33.5	35.3
Capacity of electric generators [1]	„	1.6	1.0	0.8	1.5	1.0	1.5	2.0
Capacity of electric motors [1]	„	59.4	66.0	71.7	86.0	115.9	147.1	175.1
Including: Capacity of electric motors utilizing purchased power	„	58.8	65.4	71.4	85.6	115.6	146.4	174.4
Capacity of prime movers and electric motors driving operating machinery [1]	„	81.1	89.1	100.2	117.4	148.3	179.1	208.4
Power generated by prime movers	Millions of kw-hrs	15.8	15.8	14.1	44.0	42.4	55.8	49.5
Power generated by electric generators		0.6	0.5	0.6	1.2	1.2	2.2	3.1
Purchased power	„	33.2	38.2	59.1	86.0	115.8	137.9	157.7
Sale of power	„	0.2	0.4	0.1	1.8	4.3	4.3	6.9
Total consumption of power	„	48.8	53.6	73.1	128.2	153.9	189.4	200.3
a) Electric energy	„	33.6	38.3	59.6	85.4	112.7	135.8	153.9
Electric energy used as motive power	„	32.2	36.9	55.9	81.1	100.8	123.5	137.3
Coefficient of centralization of electric power supply	—	98.3	98.7	99.1	98.7	99.0	98.4	98.1
Coefficient of electrification of industrial processes	—	68.0	70.8	80.6	65.5	71.1	69.5	75.0
Total power supply per worker	kw-hours per man hour	0.53	0.58	0.70	0.78	0.83	0.86	0.89
Electric power supply per worker	„	0.38	0.42	0.56	0.53	0.62	0.64	0.71

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[1] As at end year.

Table 4

Peat Extraction: By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
U. S. S. R.	6,913.7	8,076.1	12,357.2	14,788.6	13,845.8	18,253.7
I. R. S. F. S. R.	6,644.5	7,479.8	10,735.8	13,053.5	12,239.1	15,761.2
Including:						
Northern Territory	—	0.1	10.2	12.7	11.6	17.4
Leningrad Region	660.6	884.5	1,120.8	1,619.5	1,989.8	2,177.9
Western Region	310.5	476.8	771.8	990.9	589.2	947.2
Kalinin Region	[1]	[1]	[1]	[1]	840.5	1,016.6
Moscow Region	3,221.0	3,413.4	4,362.6	5.221.2	3,768.6	5,041.7
Ivanovo Region	834.2	1,054.5	1,481.8	2,032.5	2,038.5	2,427.7
Gorky Territory	480.1	782.3	1,159.3	1,261.3	1,245.5	1,542.1
Kirov Territory						11.5
Kursk Region	925.5	531.7	1,149.0	1,025.4	352.2	495.7
Voronezh Region					327.3	583.9
Sverdlovsk Region	141.0	191.9	397.1	449.5	503.7	678.5
Cheliabinsk Region					52.6	78.5
Bashkir A.S.S.R.	8.8	9.0	40.9	5.0	23.9	24.3
Tatar A.S.S.R.	—	—	1.5	15.5	19.2	32.9
Kuibyshev Territory	60.8	133.6	217.0	376.5	459.6	640.6
Saratov Territory	2.0	2.0	8.7	15.1	9.0	22.2
Kazakhstan A.S.S.R.	—	—	3.5	3.9	2.0	0.3
Kirghiz A.S.S.R.	—	—	2.5	6.5	1.1	5.0
West Siberian Territory	—	—	8.5	18.0	4.8	6.0
East Siberian Territory	—	—	0.6	—	—	10.7
II. **White Russian S. S. R.**	157.7	256.0	577.1	834.4	912.0	1,367.5
III. **Ukrainian S. S. R.**	111.5	340.3	1,044.3	900.7	694.7	1,125 0

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[1] Prior to 1933 data for the Kalinin Region were included with the Western and Moscow Regions.

Table 5

Output of Peat: By Methods of Extraction

(In thousands of tons)

Year	Hydro-peat method [1]	Hydro-elevator method	Milling method	Mechanical excavation	Machine-molding	Cutting	Total
A	1	2	3	4	5	6	7
1913	—	—	—	—	1,557.0	131.0	1,688.0
1914	—	—	—	—	1,725 0	178.2	1,903.3
1915	—	—	—	—	1,508.0	166.6	1,674.6
1916	—	—	—	—	1,446 0	173.0	1,619.0
1917	—	—	—	—	1,198.0	158.3	1,356.3
1918	—	—	—	—	975.6	117.4	1,093.0
1919	2.2	—	—	—	1,064.0	159.3	1,225.5
1920	5.6	—	—	—	1,194.4	190.0	1,390.0
1921	18.1	—	—	—	1,484.2	515.7	2,018.0
1922	49.6	—	—	—	1,793.9	314.5	2,158.0
1923	126.3	—	—	—	2,081.9	219.0	2,427.2
1924	188.8	—	—	—	2,420.3	248.5	2,857.6
1925	216.0	—	—	—	2,240.6	261.6	2,718.2
1926	309.1	—	—	—	2,937.5	307.5	3,554.1
1927	514 0	—	—	—	3,998.9	397.8	4,910.7
1928	957.2	—	8.2	—	3,946.4	408.1	5,319.9
1929	1,107.8	—	27.1	—	4,066.2	1,712,6	6,913.7
1930	1,797.0	90.0	186.0	—	4,054.3	1,948.8	8,076.1
1931	2,356 0	258.4	2,214.0	—	4,737.1	2,791.7	12.357.2
1932	2,713.3	320.3	3,760.1	43.8	4,745.9	3,205.2	14,788.6
1933	3,379.5	396.0	1,811.6	60.2	5,805.1	2,393.4	13,845.8
1934	3,790.1	580.8	3,526.3	98.1	7,038 3	3,220.1	18,253.7

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[1] By this method, a powerful jet of water is directed against the peat, thus softening it and ultimately converting it into an easily removable hydrated mass.

7. FERROUS METALS INDUSTRY

Table 1

Summary for the Ferrous Metals Industry [1]

Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
1926	614.6	381.5	116,609	577
1927	630.9	423.4	172,109	641
1928	685.7	446.1	180,513	748
1929	789.6	562.4	188,866	901
1930	918.3	596.4	202,065	1,079
1931	1,026.8	626.9	219,150	1,116
1932	1,478.5	830.4	259,417	1,358
1933	2,226.8	1,177.5	287,154	1,616
1934	3,219.5	1,501.9	310.483	2,240

Table 2

Production Costs in the Ferrous Metals Industry

(Per cent of total)

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1932	28.8	19.4	3.4	34.2	5.5	8.7	100.0
1934	33.8	17.2	5.0	30.6	4.9	8.5	100.0

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[1] Coking plants and manganese mines at metallurgical combines, iron ore mines at the Magnitogorsk and Kuznetsk iron and steel plants, as well as electric generating stations of district scope, are not included in this table. These data are comprised in the indices of power supply (Column 2: Capacity of prime movers, etc.).

Table 3

Power Supply in the Ferrous Metals Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers [1]	Thous. of kw	392.2	483 6	533.8	580.2	622.9	791.0	905.3
Capacity of electric generators [1]	"	169.4	215.0	257.0	296.7	297.7	334.7	358.0
Capacity of electric motors [1]	"	223.3	293.8	319.6	343.4	505.5	721.2	954.6
Including: Capacity of electric motors utilizing purchased power	"	54.5	45.6	79.9	153 0	346.6	532.5	720.9
Capacity of prime movers and electric motors driving operating machinery [1]	"	446.1	562.4	596.4	626.9	830.4	1,177.5	1,501.9
Power generated by prime movers	Millions of kw-hrs	1,238.5	1,480.3	1.806.2	2,005.3	2,268.0	2,518.2	3,190.2
Power generated by electric generators	"	543.0	684.3	888 9	910.6	920.2	970.1	1,132.5
Purchased power	"	58.5	61.3	121.6	240.7	608.0	1.021.2	1,862 0
Sale of power	"	83.6	138.8	200.8	229.4	335.7	510.6	711.5
Total consumption of power [2]	"	1.213.4	1.402.8	1,727.0	2,016.6	2,540.3	3,028.8	4,340.7
a) Electric energy	"	517.9	606.8	809.7	921.9	1,192.5	1,480.7	2,283.0
Electric energy used as motive power	"	411.2	484.1	645.5	696.4	819.2	1,046.7	1,409.1
Electric energy used for process work	"	13.3	25.1	65.0	92.4	154.4	237.4	623.6
b) Mechanical energy used for driving operating machinery	"	635.8	720.7	819 5	994.4	1,246.6	1,441.4	1,933 2
Coefficient of centralization of electric power supply	—	9.7	8.2	12.0	20.9	39.8	51.3	62.2
Coefficient of electrification of industrial processes	—	40.0	41.4	46.4	44.2	44.6	47.1	51.3
Total power supply per worker	Kw-hours per man-hour	3.33	3.54	4.41	5.21	5.26	5.33	7.35
Electric power supply per worker	"	1.33	1.53	2.07	2.38	2.47	2.60	3.85

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[1] As at end of year.
[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 4

Output of Pig Iron, Steel Ingots and Castings, Rolled Steel, Iron Ore, Manganese Ore and Coke

(In thousands of tons)

	1913	1927-28	1929-30	1931	1932	1933	1934	1935 [1]
A	1	2	3	4	5	6	7	8
Pig iron	4,216	3,282.3	4,963.6	4,871.1	6,161.1	7,109.8	10,428.3	12,488.9
Ferro-alloys	—	0.6	0.6	5.3	15.7	20.9	67.0	117.1
Steel ingots and castings	4,231	4,250.9	5,760.7	5,619.7	5,927.1	6,889.1	9,693.2	12,600.0
Rolled steel	3,506	3,408.4	4,503.3	4,159.0	4,288,0	4,881.7	6,733.5	8,995.0
Iron ore	9,214	6,124.3[2]	10,653.6[2]	10,587.3	12,075.9	14,562.2	21,722.6	26,844.0
Manganese ore	276	702.4[2]	1,384.6[2]	883.5	832.1	1,021.3	1,820.5	2,385.0
Coke	4,400	4,176.5[2]	6,205.1[2]	6,755.6	8,421.4	10,225.4	14,213.0	16,752.0

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[1] Preliminary data.

[2] Output of iron and manganese ore and coke shown for calendar years 1928, 1929, 1930.

Table 5

Output of Pig Iron and Ferro-Alloys Produced in Blast Furnace: By Kinds [1]

(In thousands of tons)

Kinds of Pig Iron	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Total pig iron	3,282.3	6,161.1	7,109.8	10,428.3	12,488.9
Steel making iron	2,515.4	4,127.9	5,034.7	7,196.0	9,043.4
Foundry iron	705.2	1,851.0	1,902.4	2,921.5	2,975.8
Including:					
Hematite iron	[2]	159.7	148.9	81.3	111.7
Malleable and cast iron for rolls	[2]	13.8	18.6	17.1	51.1
Spiegeleisen	25.3	98.8	73.2	140.7	255.5
Ferro-manganese	36.4	52.3	69.8	92.8	116.8
Ferro-silicon	—	31.1	23.0	42.0	55.0
Chromium nickel	—	—	6.7	35.3	36.6
Vanadium iron	—	—	—	—	5.8
Total coke iron	2,700.8	5,417.7	6,255.0	9,496.3	11,638.8
Total charcoal iron	581.5	743.4	854.8	932.0	850.1

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[1] Exclusive of ferro-alloys produced in electric furnaces.

[2] No data available.

Table 6

Ferro-Alloys Produced in Electric Furnace

(In thousands of tons)

Kinds of Ferro-Alloys	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Total ferro-alloys	**0.6**	**15.7**	**20.9**	**67.0**	**117.1**
Ferro-silicon 45—50 per cent	0.6	11.9	13.0	38.3	70.0
" 75 " "	—	1.8	4.4	7.1	10.6
Ferro chrome	—	1.9	2.2	8.3	13.6
Ferro-manganese	—	—	1.0	12.8	21.9
Ferro-tungsten	—	0.1	0.3	0.5	0.5
Silicon manganese	—	—	—	—	0.5

Table 7

Output of Steel: By Method of Production

(In thousands of tons)

Kinds of Steel	1927-28	1928-29	1929-30	1931	1932	1933	1934
A	1	2	3	4	5	6	7
Total steel	**4,250.9**	**4,854.3**	**5,760.7**	**5,619.7**	**5,927.1**	**6,889.1**	**9,693.2**
Open hearth	3,763.2	4,277.2	5,050.1	4,828.2	5,036.1	5,803.4	8,292.1
Bessemer	473.5	556.0	656.8	586.7	610.6	726.4	851.0
Thomas (basic Bessemer)	—	—	10.2	133.7	172.9	158.9	203.7
Electric	11.5	18.5	34.9	68.5	100.9	193.8	343.7
Crucible	2.7	2.6	8.7	2.6	6.6	6.6	2.7

Table 8

Output of Rolled Steel: By Classes

(In thousands of tons)

Classes of Rolled Steel Products	1927-28	1928-29	1929-30	1931	1932	1933	1934
A	1	2	3	4	5	6	7
A. Plain rolled steel products							
Rails for railroads—total	352.2	335.0	397.7	454 0	427.0	516.9	786.8
Of which: High grade	295.2	277.9	332.1	351.3	331.6	337.3	529.8
Rails for street railways	10.6	7.0	7.2	2.2	1.3	0.6	4.5
Rails for mine haulage	38 2	48.1	64 1	61.1	68.1	77.0	73.3
Beams and U-iron (channels)	186.0	202.0	190.8	109.0	129.6	121.8	241.9
Strips, shaped	10.4	13.3	18.1	21.6	25.3	26.1	49.0
Shaped bars (steel and cast iron)	1,190.6	1,322.5	1,552.2	1,359.1	1,232.4	1,275.5	1,645.6
Reinforcing bars	63.5	110.3	115.3	106.7	158.5	137.9	236.6
Wire rods	250 0	289.3	340.9	296.4	289.3	312.4	354.0
Sheet bars	126.4	134.6	155.4	153.2	153.8	167.0	185.3
Plates	225.5	301.2	402.3	366.6	342.0	354.4	551.2
Sheets	97.8	125.6	163.0	157.9	171.9	160.8	178.5
Pickled iron	23.8	33.6	35.3	22.9	28.8	32.0	38.6
Black sheets	38.7	52.1	63.5	51.6	51.0	47.3	57.2
Roofing black iron	369.3	396.1	315.3	157.3	98.4	102.9	124.8
Fires	52.4	61:2	85.6	73.0	71.4	86.6	120.3
Wheels, rolled	4.2	9.5	12 8	13.8	10.9	14.5	16.3
Skelp for seamless tubes	55.6	64.8	72.7	68.4	65.4	84.1	114.4
Axle blanks	25.0	26.1	33.5	25.3	25.9	49.8	90.9
Forging blanks	2.8	3.7	5.1	10 6	40.5	68.4	121.0
Total plain rolled steel products (excluding semi-finished products for sale)	**3,123.0**	**3,536.0**	**4,030.8**	**3,510.7**	**3,391.5**	**3,636.0**	**4,990.2**
Total plain rolled steel products (including semi-finished products for sale)	**3,318.0**	**3,760.4**	**4.276.2**	**3,736 8**	**3,605.4**	**3,993.7**	**5,486.1**
B. Alloy rolled steel products							
Total alloy rolled steel products (excluding semi-finished products for sale)	**90.4**	**137.9**	**227.0**	**415.9**	**668.7**	**850.3**	**1,198.4**
Total alloy rolled steel products (including semi-finished products for sale)	**90.4**	**137.9**	**227.1**	**422.2**	**682.6**	**888.0**	**1,247.4**
Total rolled steel products (A+B) (excluding semi-finished products for sale)	**3,213.4**	**3.673.9**	**4,257.8**	**3,926.6**	**4,060.2**	**4,486.3**	**6,188.6**
Total rolled steel products (A+B) (including semi-finished products for sale)	**3,408.4**	**3,898.3**	**4,503.3**	**4,159.0**	**4,288.0**	**4,881.7**	**6,733.5**

Table 9

Output of Pig Iron: By Republics, Regions and Territories

Republics, Regions and Territories	1927-28		1932		1935	
	Thousands of tons	Per cent of total	Thousands of tons	Per cent of total	Thousands of tons	Per cent of total
A	1	2	3	4	5	6
U. S. S. R.	**3,282.3**	**100.0**	**6,161.1**	**100.0**	**12,488.9**	**100.0**
I. R. S. F. S. R.	921.0	28.1	2,250.3	36.5	4,865.4	39.0
Moscow Region	57.6	1.8	104.5	1.7	285.4	2.3
Gorky Territory	45.0	1.4	65.4	1.1	31.2	0.3
Kirov Territory	3.2	0.1	6.2	0.1	6.9	0.1
Voronezh Region	82.9	2.5	183.5	3.0	421.9	3.4
Bashkir A.S.S.R.	26.4	0.8	70.2	1.1	68.3	0.5
Sverdlovsk Region	532.6	16.2	643.1	10.4	838.1	6.7
Cheliabinsk Region	133.1	4.1	532.8	8.6	1,512.1	12.1
West Siberian Territory	5.6	0.2	250.7	4.1	1,233.9	9.9
East Siberian Territory	4.8	0.1	4.8	0.1	2.8	0.0
Azov-Black Sea Territory	29.8	0.9	56.8	0.9	27.8	0.2
Crimean A.S.S.R.	—	—	332.3	5.4	437.0	3.5
II. Ukrainian S. S. R.	2,361.3	71.9	3,910.8	63.5	7,623.5	61.0
Total for Southern District	**2,391.1**	**72.8**	**4.299.9**	**69.8**	**8,088.3**	**64.7**
" " Eastern District	**702.5**	**21.4**	**1,501.6**	**24.3**	**3,655.2**	**29.2**
" " Central District	**188.7**	**5.8**	**359.6**	**5.9**	**745.4**	**6.1**

Table 10

Output of Steel: By Republics, Regions and Territories

Republics, Regions and Territories	1927-28		1932		1934	
	Thousands of tons	Per cent of total	Thousands of tons	Per cent of total	Thousands of tons	Per cent of total
A	1	2	3	4	5	6
U. S. S. R.	**4,250.9**	**100.0**	**5,927.1**	**100.0**	**9,693.2**	**100.0**
I. **R. S. F. S. R.**	1,830.3	43.0	2,778.1	46.8	4 981.1	51.4
Karelian A. S. S. R.	5.1	0.1	9.7	0.2	8,4	0.1
Leningrad Region	184.8	4.4	293.8	5.0	420.4	4.3
Western Region	42.6	1.0	49.6	0.8	72.6	0.9
Kalinin Region	—	—	—	—	7.8	0.1
Moscow Region	135.1	3.2	183.1	3.1	313.9	3.2
Ivanovo Region	—	—	—	—	8.3	0.1
Gorky Territory	189.6	4.5	217.9	3.7	361.1	3.7
Kirov Territory	58.3	1.3	124.4	2.1	199.0	2.0
Voronezh Region	—	—	—	—	6.6	0.1
Sverdlovsk Region	711.0	16.7	790.3	13.3	1,057.8	10.9
Cheliabinsk Region	160.0	3.8	183.7	3.1	700.2	7.2
Bashkir A. S. S. R.	76.2	1.8	83.9	1.4	92.7	1.0
Stalingrad Territory	171.6	4.0	363.8	6.1	544.5	5.6
Saratov Territory	—	—	—	—	2.9	0.0
Azov-Black Sea Territory	89.7	2.1	251.4	4.2	342.8	3.5
Crimean A. S. S. R.	—	—	172.9	2.9	203.7	2.1
West Siberian Territory	—	—	47.3	0.8	629.2	6.5
East Siberian Territory	6.3	0.1	6.3	0.1	9.2	0.1
II. **Ukrainian S. S. R.**	2,409.1	56.7	3,127.7	52.8	4,683.6	48.3
Dniepropetrovsk Region	982.2	23.1	1,151.0	19.4	1,904.0	19.6
Donetz Region	1,395.5	32.8	1,882.6	31.8	2,655.2	27.4
Kiev Region	3.6	0.1	11.3	0.2	17.2	0.2
Odessa Region	7.4	0.2	54.5	0.9	62.1	0.6
Kharkov Region	20.4	0.5	28.3	0.5	45.1	0.5
III. **Transcaucasian S. F. S. R.** (Azerbaidjan S. S. R.)	11.5	0.3	21.3	0.4	26.7	0.3
IV. **Uzbek S. S. R.**	—	—	—	—	1.8	0.0
Total for Southern District	**2,510.3**	**59.1**	**3,573.3**	**60.3**	**5,256.8**	**54.2**
" " Eastern District	**953.5**	**22.4**	**1,111.5**	**18.7**	**2,490.9**	**25.7**
" " Central District	**787.1**	**18.5**	**1,242.3**	**21.0**	**1,945.5**	**20.1**

Table 11

Output of Iron Ore and Manganese Ore: By Republics, Regions and Territories

(In thousands of tons)

Republics, Regions and Territories	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
Iron Ore								
U. S. S. R.	6,133.0	7,997.1	10,663.4	10,591.3	12,085.7	14,454.5	21,508.8	26,845.0
R. S. F. S. R.	1,462.0	2,398.1	2,551.6	2,990.3	4,160.2	5,462.9	8,211.8	10,295.6
Moscow Region	108.3	161.5	176.8	172.0	179.8	254.3	381.6	548.0
Gorky Territory	11.0	17.3	17.3	18.7	3.8	3.4	5.2	3.7
Kirov Territory					18.8	26.7	28.9	9.4
Kursk Region	—	—	—	—	—	—	—	1.3
Voronezh Region	188.5	356.0	346.4	374.0	322.4	433.4	478.4	683.0
Sverdlovsk Region	1,094.4	1,762.7	1,806.4	2,011.6	3,054.6	1,257.4	1,631.4	1,565.5
Cheliabinsk Region						2,793.5	4,485.4	6,062.8
Bashkir A. S. S. R.	—	—	—	—	—	169.6	204.9	136.7
Orenburg Region	—	—	—	—	—	36.0	97.9	56,2
Crimean A. S. S. R. [1]	51.1	91.8	194.9	410.0	516.3	282.1	382.4	456.0
West Siberian Territory	—	—	—	—	54.7	197.9	508.3	766.4
East Siberian Territory	8.7	8.8	9.8	4.0	9.8	8.6	7.4	6.6
Ukrainian S. S. R. (Dniepropetrovsk Region)	4,671.0	5,599.0	8,111.8	7,601.0	7,925.5	8,991.6	13,297.0	16,549.4
Manganese Ore								
U. S. S. R.	702.4	1,469.2	1,334.6	883.5	832.1	1,021.3	1,821.0	2,384.6
Sverdlovsk Region	—	—	—	—	—	1.5	2.9	9.5
Bashkir A. S. S. R.	—	—	—	—	—	11.7	21.9	27.0
West Siberian Territory	—	—	—	—	—	3.4	63.6	131,1
Ukrainian S. S. R. (Dniepropetrovsk Region)	530.6	579.6	601.7	493.5	443.3	524.0	818.1	1,037.0
Transcaucasian S. F. S. R. (Georgian S. S. R.)	171.8	829.6	782.9	390.0	388.8	480.7	914.5	1,180.0

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[1] For 1933 and 1934 dressed ore; for previous years, raw ore.

Table 12

Number and Size of Blast Furnaces [1])

Furnaces Grouped According to Useful Volume	As at Oct. 1, 1928			As at Jan. 1, 1933			As at Jan. 1, 1934			As at Jan. 1, 1935		
	Number of stacks	Total useful volume, in cubic meters	Average useful volume per stack, in cubic meters	Number of stacks	Total useful volume, in cubic meters	Average useful volume per stack, in cubic meters	Number of stacks	Total useful volume, in cubic meters	Average useful volume per stack, in cubic meters	Number of stacks	Total useful volume, in cubic meters	Average useful volume per stack, in cubic meters
A	1	2	3	4	5	6	7	8	9	10	11	12
Total furnaces	69	20,030	290	103	36.913	358	108	42.217	391	112	48,390	432
Up to 100 cubic meters	8	609	76	11	885	81	12	990	83	10	797	80
101—200 " "	25	3,865	155	30	4,717	157	29	4,576	158	30	4,674	156
201—500 " "	27	10,240	379	37	13,073	353	35	12,072	345	33	11,418	346
501—900 " "	9	5.316	591	22	14.948	679	24	16,033	668	24	16,009	667
901—1,000 " "	—	—	—	1	930	930	4	3,790	948	9	8,410	934
Over 1,000 " "	—	—	—	2	2.360	1,180	4	4,756	1,189	6	7,082	1,180

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[1]) [illegible] volume of relined furnaces accounted for.

Number and Size of Blast Furnaces: By Republics, Regions and Territories

Republics, Regions and Territories	All furnaces, as at Jan. 1, 1934			All furnaces, as at Jan. 1, 1935			Including furnaces blown in: During First Five-Year Plan period			In 1933			In 1934		
	Number	Useful volume: In cubic meters	Useful volume: Per cent of total	Number	Useful volume: In cubic meters	Useful volume: Per cent of total	Number	Useful volume: In cubic meters	Useful volume: Per cent of total	Number	Useful volume: In cubic meters	Useful volume: Per cent of total	Number	Useful volume: In cubic meters	Useful volume: Per cent of total
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
U. S. S. R.	108	42,217	100.0	112	48,390	100.0	41	18.224	100.0	7	6,112.0	100.0	7	6,996.0	100.0
I. R. S. F. S. R.	66	19,016	45.0	67	21,944	45.3	29	10,498	57.6	2	2,396.0	39.2	3	3,256.0	46.5
Moscow Region	3	1,411	3.3	3	1,411	2.9	1	697	3.8	—	—	—	—	—	—
Gorky Territory	4	425	1.0	3	349	0.7	3	347	1.9	—	—	—	—	—	—
Kirov Territory	3	215	0.5	3	216	0.4	3	216	1.2	—	—	—	—	—	—
Voronezh Region	2	1,088	2.6	3	2,008	4.2	1	558	3.1	—	—	—	1	930	13.3
Sverdlovsk Region	29	5,167	12.2	29	5,180	10.7	9	1,847	10.1	—	—	—	—	—	—
Cheliabinsk Region	13	6,166	14.6	13	6,122	12.6	5	2,859	15.7	2	2,396.0	39.2	—	—	—
Bashkir A.S.S.R.	3	425	1.0	3	425	0.9	1	186	1.0	—	—	—	—	—	—
Azov-Black Sea Territory	2	425	1.0	1	213	0.4	1	213	1.2	—	—	—	—	—	—
Crimean A.S.S.R.	3	1,933	4.6	3	1,933	4.0	3	1,933	10.6	—	—	—	—	—	—
West Siberian Territory	3	1,682	4.0	5	4,008	8.3	2	1,642	9.0	—	—	—	2	2,326	33.2
East Siberian Territory	1	79	0.2	1	79	0.2	—	—	—	—	—	—	—	—	—
II. Ukrainian S. S. R.	42	23,201	55.0	45	26,446	54.7	12	7,726	42.4	5	3,716	60.8	4	3,740	53.5
Total Southern District	**47**	**25.559**	**60.6**	49	28,592	59.1	16	9.872	54.2	5	3,716	60.8	4	3,740	53.5
Total Eastern District	**49**	**13.519**	**32.0**	51	15,814	32.7	17	6,534	35.8	2	2,396	39.2	2	2,326	33.2
Total Central District	**12**	**3,139**	**7.4**	13	3,984	8.2	8	1,818	10.0	—	—	—	1	930	13.3

Table 14

Coefficient of Utilization of Useful Volume and Banking of Blast Furnaces, 1932—1935

	Coke furnaces		Charcoal furnaces	
	Coefficient of utilization of useful volume [1]	Banking (per cent of nominal working-time) [2]	Coefficient of utilization of useful volume [1]	Banking (per cent of nominal working-time [2]
A	1	2	3	4
Annual average for 1931	1.82	5.3	2.29	7.9
" " " 1932	1.69	5.7	2.22	7.8
" " " 1933	1.69	7.8	1.94	3.8
" " " 1934	1.31	5.1	1.74	4.3
" " " 1935	1.20	4.7	1.59	4.2

Table 15

Mechanization of Industrial Processes at Blast Furnace Plants, 1933-1935

	Year	Total output of pig iron (thousands of tons)	Of which: Produced by fully mechanized furnaces		Machine-cast pig iron		Direct metal	
		Thousands of tons	Thousands of tons	Per cent of total output	Thousands of tons	Per cent of total pig iron output	Thousands of tons	Per cent of total output of steel making iron
A	B	1	2	3	4	5	6	7
All Plants	1933	7,109.8	2,295.6	32.3	2,458.0	56.7	2,761.9	53.1
	1934	10,428 3	4,861.4	46 6	4,640.5	71.8	3,933.3	54.8
	1935	12,488.9	6,600.5	52.9	5,384.8	77.5	5,519.0	61.0
Plants with average useful volume (in cubic meters) Up to 400	1933	1,580.1	—	—	131.8	10.6	333.8	29.8
	1934	1,816.9	—	—	163.6	12.1	454.9	35.1
	1935	1,719.7	—	—	156.1	12.5	464.1	39.6
401—800	1933	4,485.3	1,251.2	27.9	1,492.1	66.0	2,217.8	69.3
	1934	5,557.7	1,807 7	32.5	2,167.4	77.0	2,735.3	62.9
	1935	6,412.7	2,244.0	35.0	2,281.9	82.8	3,645.7	68.7
Over 801	1933	1,044.4	1,044.4	100.0	834.1	100.0	210.3	29.5
	1934	3,053.7	3,053.7	100.0	2,309.5	100.0	743.1	47.8
	1935	4,356.5	4,356.5	100.0	2,946.8	100.0	1,409.2	54.9

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[1] Cubic meters of useful volume per ton pig iron smelted per day.
[2] The term "nominal working-time" stands for calendar time less outage for relining, etc.

Number and Size of Open Hearth Furnaces

(Grouped according to hearth area)

Furnaces	As at Oct. 1, 1928			As at Jan. 1, 1933			As at Jan. 1, 1934			As at Jan. 1, 1935		
	Number of furnaces	Total hearth area, in sq. meters	Average hearth area per furnace, in sq. meters	Number of furnaces	Total hearth area, in sq. meters	Average hearth area per furnace, in sq. meters	Number of furnaces	Total hearth area, in sq. meters	Average hearth area per furnace, in sq. meters	Number of furnaces	Total hearth area, in sq. meters	Average hearth area per furnace, in sq. meters
A	1	2	3	4	5	6	7	8	9	10	11	12
Total furnaces	**222**	**4,799**	**22**	**296**	**6,701**	**23**	**322**	**7,869**	**24**	**337**	**8,613**	**26**
Up to 20 sq. meters	110	1,599	14	140	1,957	14	143	1,938	14	149	2,046	14
20—30 sq. meters	75	1,862	25	93	2,297	25	91	2,205	24	88	2,124	24
30—40 " "	31	1,077	35	44	1,554	35	54	1,907	35	54	1,907	35
40—50 " "	6	261	44	16	696	43	16	717	45	19	851	45
50—70 " "	—	—	—	3	197	66	18	1,102	61	27	1,685	62

Table 17

Number and Size of Open-Hearth Furnaces: By Republics, Regions and Territories

Republics, Regions and Territories	All open-hearth furnaces, as at Jan. 1, 1935			Including: furnaces started during First Five-Year Plan		Including: furnaces started in 1933		Including: furnaces started in 1934	
	Number of furnaces	Hearth area		Number of furnaces	Hearth area	Number of furnaces	Hearth area	Number of furnaces	Hearth area
		In sq. meters	Per cent of total		In sq. meters		In sq. meters		In sq. meters
A	1	2	3	4	5	6	7	8	9
U. S. S. R.	**337**	**8,613**	**100.0**	**78**	**1,982**	**26**	**1,133**	**20**	**873**
I. R.S.F.S.R.	**214**	**5,098**	**59.2**	**53**	**1,339**	**16**	**674**	**12**	**584**
Karelian A S.S.R.	1	14	0.2	—	—	—	—	—	—
Leningrad Region	22	385	4.5	4	47	1	34	—	—
Western Region	6	76	0.9	—	—	—	—	—	—
Moscow Region	16	271	3.1	3	54	1	16	2	32
Ivanovo Region	1	6	0.1	—	—	—	—	—	—
Gorky Territory	23	519	6.0	2	44	3	76	2	71
Kirov Territory	14	228	2.6	7	126	—	—	—	—
Voronezh Region	2	15	0.2	—	—	2	15	—	—
Sverdlovsk Region	57	1,213	14.1	12	236	2	73	1	21
Cheliabinsk Region	20	718	8.3	4	56	4	263	3	197
Bashkir A.S.S.R.	4	132	1.5	2	66	—	—	—	—
Stalingrad Territory	19	462	5.3	7	274	—	—	—	—
Azov-Black Sea Territory	15	350	4.1	6	201	—	—	—	—
West Siberian Territory	12	693	8.1	4	219	3	197	4	263
East Siberian Territory	2	16	0.2	2	16	—	—	—	—
II. Ukrainian S.S.R.	**117**	**3,444**	**40.0**	**24**	**636**	**10**	**459**	**6**	**253**
***III. Transcaucasian* S.F.S.R.**	**4**	**35**	**0.4**	**1**	**7**	—	—	—	—
IV. Uzbek S.S.R.	**2**	**36**	**0.4**	—	—	—	—	**2**	**36**

Table 18

Output of Steel per Square Meter Hearth Area and Outage-Time of Open-Hearth Furnaces, 1931-1935

	Average daily output of steel per sq. m. hearth area (tons)	Stops (per cent of calendar time)		
		Stops for relining, etc.	Outage (furnace cold)	Total
A	1	2	3	4
Annual average for 1931	2.79	20.4	12.4	32.8
" " " 1932	2.68	20.8	13.4	34.2
" " " 1933	2.89	20.8	11.8	32.6
" " " 1934	3.36	16.4	9.4	25.8
" " " 1935 1)	3.85	2)	2)	22.2

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1) Preliminary data (not all furnaces in steel-shaping mills are included in this table).
2) No data available.

Table 1

Summary for the Chemical Industry

Branches of Industry	Year	Fixed capital as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machines, as at end of respective year (thous. of tons)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	B	1	2	3	4
Raw materials for the chemical industry	1932	80.2	16.4	15,452	55
	1933	136.1	26.7	19,275	71
	1934	189.0	39.6	22,458	97
Including:					
Phosphate rock (inclusive of apatite)	1933	41.0	7.9	5,195	26
	1934	67.8	16.5	6,988	32
Potassium salts	1933	43.2	8.5	1,980	5
	1934	47.6	11.7	2,870	14
Salts	1933	31.5	6.9	6,811	24
	1934	31.9	7.7	7,151	30
Other raw materials for the chemical industry	1933	20.4	3.4	5,289	16
	1934	41.7	3.7	5,449	21
The chemical industry proper	1928	320.5	56.0	54,749 [1]	364
	1932	1,169.3	274.0	131,176	1,165
	1933	1,684.4	329.3	144,800	1,467
	1934	2,026.0	396.2	162,692	1,980
Including:					
Basic chemicals [2]	1928	124.1	31.1	16,090	90
	1932	460.7	147.9	30,573	267
	1933	702.6	177.4	36,501	332
	1934	834.8	206.2	42,875	461
Synthetic organic chemicals [3]	1932	535.9	105.5	53,642	483
	1933	734.0	125.3	52,638	662
	1934	892.9	157.2	65,328	942
Medicinal and pharmaceutical chemicals	1932	42.2	5.8	9,785	112
	1933	58.8	6.1	9,977	128
	1934	72.1	7.9	10,216	131
Chemical processing of forest and vegetable products	1932	67.5	6.4	27,501	109
	1933	119.4	10.1	36,487	147
	1934	143.4	13.4	33,945	184
Paints and varnishes	1932	45.5	6.6	7,438	160
	1933	50.5	8.2	6,957	157
	1934	60.2	9.2	7,725	201

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[1] The total number of wage-earners in the chemical industry up to 1930 inclusive does not include wage-earners engaged in the processing of forest products, no separate data being available for earlier years for this branch of industry.

[2] Production of basic chemicals includes the following branches: nitrogen fertilizers; phosphate fertilizers; acids and salts; alkali and chlorine compounds; manufacture of oxygen, acetylene, hydrogen, carbon dioxide and other gases.

[3] Production of synthetic organic chemicals includes the following branches: synthetic dyestuffs, plastics, rayon, synthetic fiber, synthetic rubber, aliphatic products and synthetic essential oils.

Table 2

Production Costs in the Chemical Industry Itemized [1])

(Per cent of total)

Branches of Industry	Year	Materials and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	B	1	2	3	4	5	6	7
Raw materials for the chemical industry	1932	10.3	9.9	5.8	46.5	10.6	16.9	100
	1934	13.2	10.1	8.2	41.6	8.9	17.8	100
Including: Salts	1932	10.3	10.0	6.3	43.5	10.8	19.2	100
	1934	11.0	14.0	5.4	45.5	11.0	13.1	100
The chemical industry proper	1932	47.8	6.2	4.6	26.7	5,7	9.0	100
	1934	58.9	5.9	4.0	19.1	5.4	7.6	100
Including:								
Basic chemicals	1932	34.9	9.6	6.7	29.9	7.2	11.7	100
	1934	37.5	10.0	8.1	26.2	6.5	11.7	100
Synthetic organic chemicals	1932	46.1	5.6	4.5	28.9	5.5	9.4	100
	1934	63.2	5.1	3.2	17.9	3.9	6.7	100
Medicinal and pharmaceutical chemicals	1932	69.5	2.8	2.8	14.6	4.5	5.8	100
	1934	70.9	3.0	2.4	13.9	4.2	5.6	100
Chemical processing of forest products	1932	58.8	4.4	2.6	22.7	4.4	7.1	100
	1934	64.2	4.5	2.6	17.0	3.4	8.3	100
Paints and varnishes	1932	64.2	3.4	2.0	20.1	5.3	5.0	100
	1934	63.3	5.3	2.5	17.7	5.8	5.4	100

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[1]) **Enterprises of Industrial Coumissariats.**

Table 3

Power Supply in the Chemical Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
I. Raw Materials for the Chemical Industry								
Capacity of prime movers [1]	Thous. of kw.	7.7	6.8	8.8	9.7	11.2	15.3	17.3
Capacity of electric generators [1]	„	4.8	3.5	5.4	5.8	6.6	10.9	12.2
Capacity of electric motors [1]	„	4.4	5.9	6.1	9.0	11.8	22.3	34.5
Including: Capacity of electric motors utilizing purchased power	„	1.4	1.9	2.0	4.3	5.0	10.9	16.4
Capacity of prime movers and electric motors driving operating machinery [1]	„	7.3	9.2	9.5	12.9	16.4	26.7	39.6
Power generated by prime movers	Millions of kw-hours	17.6	20.6	22.5	27.1	39.9	35.5	52.7
Power generated by electric generators		10.8	12.4	15.0	17.6	28.9	21.9	40.9
Purchased power	„	1.0	1.8	3.9	5.9	8.7	25.6	42.3
Sale of power	„	3.2	4.3	4.7	5.4	6.1	7.1	11.4
Total consumption of power [2]	„	15.4	18.1	21.7	27.6	42.5	54.0	84.6
a) Electric energy	„	8.6	9.9	14.2	18.1	31.5	40.4	72.8
Electric energy used as motive power	„	7.5	9.1	12.1	14.5	25.1	34.0	59.0
b) Mechanical energy used for driving operating machinery	„	5.6	6.8	7.0	7.6	7.9	11.1	7.4
Coefficient of centralization of electric power supply	—	8.0	12.8	20.8	25.2	23.3	53.9	51.4
Coefficient of electrification of industrial processes	—	56.9	57.2	63.3	65.6	76.3	75.4	89.5
Total power supply per worker	Kw-hours per man-hour	0.97	1.03	0.86	0.72	1.59	1.69	2,05
Electric power supply per worker	„	0.55	0.57	0.56	0.47	1.22	1.27	1.78

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[1] As at end of year.

[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
II. The Chemical Industry Proper								
Capacity of prime movers [1]	Thous. of kw.	52.1	55.1	78.1	91.9	110 9	141 3	151.9
Capacity of electric generators [1]	"	41.3	45.3	69.8	82.3	88.3	118.3	121.7
Capacity of electric motors [1]	"	45.2	55.5	72.1	116.4	251.4	306.3	366.0
Including: Capacity of electric motors utilizing purchased power	"	22.7	32.1	56 3	93.0	175.5	225.3	274.4
Capacity of prime movers and electric motors driving operating machinery [1]	"	56.0	65.3	80.4	126 0	274.0	329.3	396.2
Power generated by prime movers	Millions of kw-hours	153.8	180.0	192.7	237.3	222 1	313.8	383.3
Power generated by electric generators		112.8	137.3	145.0	179.5	166.9	209.4	263.0
Purchased power	"	40.7	73.9	198.5	359.1	555.2	752.4	1,040.4
Sale of power	"	11.1	24 1	28.6	39.4	56.0	79.1	106.7
Total consumption of power [2]	"	183.4	229.8	362.6	557.0	721.3	987.1	1,317.0
a) Electric energy	"	142.4	187.1	314.9	499.2	666.1	882.7	1,196.7
Electric energy used as motive power	"	85.7	110.3	168.4	270.0	356.1	478.2	675.7
Electric energy used for process work	"	25.3	44 3	105.0	165.6	238.1	307.5	394.9
b) Mechanical energy used for driving operating machinery	"	28.6	27.6	31.8	38.1	36.9	81.4	91.4
Coefficient of centralization of electric power supply	—	26.5	35.0	57.8	66.7	76 9	78.2	79.8
Coefficient of electrification of industrial processes	—	79.5	84.4	89.6	92.0	94.2	90.6	92.1
Total power supply per worker	Kw-hours per man hour	2.70	3.19	4.10	4.24	4.16	5.24	5.65
Electric power supply per worker	"	2.04	2.45	3.18	3.43	3.71	4.71	5.14

Table 4

Output of Raw Materials for the Chemical Industry

(In thousands of tons)

Products	1927-28	1928-29	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
Apatite rock	—	—	265.7	573.2	380.2	686.8	1,136.2	1,555.3
Concentrated apatite	—	—	—	26.9	156.5	213.4	382.8	767.9
Phosphate rock	104.4	210.9	586.9	770.3	684.3	809.3	1,148.5	1,750.3
Concentrated phosphate	—	—	34.1	18.6	83.1	370.8	524.4	—
Phosphate meal	12.7	14.4	181.3	312.1	384.6	332.0	284.3	498.0
Sylvinite	—	—	4.3	120.0	78.5	303.1	1,001.6	1,319.1
Pyrites (excluding carbonaceous)	175.2	300.6	352.5 [1]	380.2	338.4	415.1	457.3	516.0
Pyrites, carbonaceous	[2]	[2]	[2]	[2]	38.5	52.5	67.9	102.8
Chrome ore	25.5	54.1	79.8	88.2	65.9	109.4	127.4	177.9
Concentrated chrome	—	1.6	5.2	5.8	1.2	3.0	3.7	6.5
Mirabilite (sodium sulphate) [3]	101.7	82.6	66.4	152.7	419.5	448.2	281.8	—
Natural Glauber salt [4]	1.0	14.9	11.8	29.4	91.1	100.7	154.5	—
Natural soda ash	1.5	3.2	2.6 [1]	2.7	3.3	6.0	2.1	6.8
Fluorspar	3.1	5.7	16.9	16.6	11.2	19.3	27.0	49.1
Barite	6.3	11.1	24.3	43.1	24.3	31.0	74.8	—

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[1] 1929 - 1930.
[2] No data available.
[3] Exclusive of the output of natural anhydrous Glauber salt.
[4] Anhydrous mirabilite and tenardite (sodium sulphate).

Table 5

Salt Production: By Kinds

(In thousands of tons)

Kinds of Salt	1913	1927-28	1928-29	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9
Total	**1,958.7**	**2,336.3**	**2,669.6**	**3,158.0**	**3,181.5**	**2,636.4**	**2,734.0**	**3,544.7**	**4,349.5**
Rock salt	543.5	884.5	1,070.5	1,377.5	1,280.0	1,307.9	1,302.2	1,597.4	1,822.9
Salt from brine	529.9	343.4	354.0	340.4	186.7	140.7	158.1	255.9	272.7
Pan salt	885.3	1,108.4	1,245.1	1,440.1	1,714.8	1,187.8	1,273.7	1,691.4	2,253.9

Table 6

Output of Basic Chemicals: In Physical Units

(In tons)

Products	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
A. Inorganic acids					
Sulphuric acid (100 per cent)	210,552	552,068	627,226	782,426	995,635
Of which:					
a) Made in enterprises using pyrites as raw material	199,942	526,915	593,034	739,132	915,885
b) Made in enterprises using waste gases from non-ferrous metal smelting plants	10,610	25,153	34,192	43,294	79,750
Sulphurous anhydride	26	153	200	273	599
Hydrochloric (muriatic) acid (18° Baumé)	52,635	79,580	73,139	76,656	88,704
Boric acid	505	385	220	281	346
Chromic anhydride	—	67	178	275	738
Hydrofluoric acid	—	611	465	3,094	4,149
B. Alkali products					
Soda ash [1]	215,189	284,873	324,548	396,129	415,680
Bicarbonate	14,232	21,476	21,843	26,331	27,524
Potash [2]	6,244	5,188	3,806	5,458	—
C. Superphosphate	149,131	615,649	690,204	841,828	1,167,511
D. Inorganic salts					
Sodium sulphate [3]	34,906	54,672	54,627	57,707	64,987
" hyposulphite	601	3,025	2,874	3,417	2,873
" sulphite	308	2,483	3,525	5,411	6,146
" sulphide	11,220	21,020	24,646	26,526	27,273
" silicofluoride	14	277	505	1,524	1,788
" bichromate	3,276	5,479	8,501	12,409	10,796

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[1] Exclusive of natural soda ash (see Table 4).

[2] Figures for 1927-28—1931 are exclusive of Producers' Cooperatives, the output of which was 920 tons in 1932.

[3] Exclusive of natural Glauber salt (see Table 4).

Table 6 (Continued)

Products	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Soda and chrome alum	1,535	1,522	1,922	2,157	3,062
Sodium silicate, liquid	2,023	7.05[illegible]	11.662	14.383	12.061
Sodium silicate, in lumps	2,749	7,088	7,598	9,293	8 840
Potassium bichromate	619	220	372	822	1,150
Calcium carbide	3,351	29,230	29,841	40,612	45.766
Ammonium carbonate	203	442	960	1.145	958
Ferrous sulphate (green vitriol)	1,979	1,890	4.311	2.775	—
Copper sulphate (blue vitriol)	2,943	4.481	3,449	5.661	—
Schweinfurt green	—	795	361	1.114	1.200
Sulphate of alumina (rectified)	14,993	21,187	29,097	48,513	53,176
Aluminum sulphate, feather alum (concentrated alum)	926	1,353	1,616	1,961	2,956
Sulphate of zinc	136	856	845	1,464	1,91[illegible]
Sulphate of nickel	410	118	72	70	69
Barium chloride	817	7,282	6,830	9,19[illegible]	11,057
Borax	3,259 [4])	1,279	987	1,056	1,104

[4]) 1928.

Table 7

Production of Synthetic Dyes

(In tons)

Kinds of Product	1927-28	1932	1933	1934	1935
A	1	2	3	4	5
Total dyestuffs	**10,252**	**13,542**	**15,999**	**24,022**	**25,343**
Including:					
1. Azo dyestuffs	2,802	4,973	4,887	6.068	7,907
Substantive dyes	2.129	3,472	3,354	4,271	5.152
Acid „	409	1,032	1,008	1,263	1,644
Mordant „	171	146	182	239	394
Lake soluble „	—	143	214	232	555
Basic „	93	180	129	63	162
2. Sulphur dyestuffs	7,167	7,507	10,180	16.638	15,726
Black	6.725	6.316	8,648	14,502	12,752
Colors	442	1,191	1.532	2,136	2,971
3. Triphenylmethane dyestuffs	—	98	91	125	195
4. Nigrosin	257	690	583	934	1,041
5. Indulin		11	24	70	167
6. Alizarin	—	25	17	50	113
7. Gallo-dyestuffs	—	1	9	18	7

Table 8

Production of Plastics

(In tons)

Products	1932	1933	1934	1935
A	1	2	3	4
A. Plastics [1]	**3,875**	**4,193**	**5,556**	**7,638**
I. Phenol and formaldehyde masses	856	836	1,248	2,126
Including: Idithol	117	150	196	442
Bakelite [2]	739	686	924	1,537
Artificial copal	—	—	83	80
Neoleucorite	—	—	36	67
II. Cellulose ether masses	753	995	1,263	1,807
Including: Celluloid	690	795	985	1,295
For haberdashery	491	687	850	1,025
For processing purposes	199	108	135	270
Including celluloid for „Triplex" glass	41	32	78	172
Etrol	60	195	272	506
III. Compound masses	1,097	1.179	1,011	1,476
Asphalt and pitch masses	789	582	1,011	1,476
Nigrolite	308	597	—	—
IV. Casein masses	1,169	1,183	2,034	2.229
Galalite [3]	1,076	1.089	1.829	2,220
Leather powder	93	94	205	9
B. Plastifiers	**177**	**215**	**300**	**594**
Including: Camphor	158	173	219	395

[1] Total for phenol and formaldehyde masses includes only primary products.

[2] Cast bakelite and resin.

[3] Figures for 1932 do not include output of Producers' Cooperatives (250 tons in 1933).

Table 9

Production of Bromine and Iodine

(In tons)

Products	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
Bromine	100.2	123.7	114.4	73.8	115.1	133.6	288.9	435
Iodine	0 3	0.4	1.8	21.0	57.8	66.9	90.4	—

Table 10

Production of Photographic Plates, Photographic Paper and Motion Picture (Cinema) Films

Photographic Goods	In terms of	1927-28	1932	1933	1934	1935
A	B	1	3	3	4	5
Photographic plates [1]	Thousands of meters	162	545	647	697	943
Photographic paper [2]	„	236	2,335	3,130	4,837	5,366
Motion picture (cinema) films	Thousands of linear meters	—	25,679	30,658	52,923	86,350

[1] Figures for 1927-28 do not include Producers' Cooperatives, which produced 35,600 sq. meters *in 1932.*

[2] Figures for 1927-28 do not include Producers' Cooperatives, which produced 109,700 sq. meters in 1932.

Territorial Distribution of the Chemical Industry, 1934

Republics, Regions and Territories	Number of enterprises	Average annual number of wage-earners	Gross output in prices of 1926-27 (thousands of rubles)
A	1	2	3
U. S. S. R.	**946**	**162,692**	**1,980,443**
I. R. S. F. S. R.	**759**	**127,348**	**1,534,728**
Northern Territory	117	3,798	10,398
Karelian A. S. S. R.	1	15	27
Leningrad Region	73	16.922	286.853
Including Leningrad	25	13.549	237,298
Western Region	12	513	4.201
Kalinin Region	12	699	3,908
Moscow Region	99	35,266	622,494
Including Moscow	61	11,860	285.066
Ivanovo Region	26	5,228	75,262
Gorky Territory	110	12,516	161,875
Kirov Territory	49	2,618	6,243
Kursk Region	6	280	2,016
Voronezh Region	10	5,584	56,359
Sverdlovsk Region	48	14,526	108.299
Cheliabinsk Region	23	3,476	19,547
Omsk Region	13	574	4,339
Bashkir A. S. S. R.	6	4,989	5,976
Tatar A. S. S. R.	4	5,320	38,142
Kuibyshev Territory	17	7,895	73.921
Stalingrad Territory	5	838	8,044
Saratov Territory	3	319	2,809
Azov-Black Sea Territory	25	1,362	14.131
Northern Caucasus Territory	6	547	5,728
Crimean A. S. S. R.	5	690	4,722
Kazakhstan A. S. S. R.	12	829	4,246
Kirghiz A. S. S. R.	1	19	354
West Siberian Territory	43	1,388	9,181
East Siberian Territory	13	419	2,080
Far Eastern Territory	7	360	2,710
II. Ukrainian S. S. R.	**109**	**28,800**	**347,117**
Vinnitsa Region	3	590	5,279
Dniepropetrovsk Region	17	1,380	31,076
Donetz Region	11	16.882	188.487
Kiev Region	24	1,549	23,895
Odessa Region	19	1,496	19,372
Kharkov Region	25	1,652	33,311
Chernigov Region	10	5,251	45,697
III. White Russian S. S. R.	**42**	**4,695**	**74,397**
IV. Transcaucasian S. F. S. R.	**32**	**1,681**	**22,652**
Georgian S. S. R.	17	514	8,185
Armenian S. S. R.	3	389	4,603
Azerbaidjan S. S. R.	12	778	9,864
V. Uzbek S. S. R.	**2**	**56**	**752**
VI. Turkmenian S. S. R.	**1**	**63**	**398**
VII. Tadjik S. S. R.	**1**	**49**	**399**

9. RUBBER AND ASBESTOS INDUSTRY

Table 1

Summary for the Rubber and Asbestos Industry

Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thous. of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
Rubber and asbestos industry				
1926	82.4	17.4	19,196	131
1927	83.4	18.1	19,286	159
1928	87.9	20.0	22,067	184
1929	93.3	19.6	25,140	247
1930	95.1	22.6	29,564	339
1931	104.1	26.5	41,749	462
1932	159.1	39.2	47,969	621
1933	192.1	47.8	46,213	615
1934	236.8	52.7	48,678	801
Including:				
1. Rubber industry:				
1932	152.7	38.8	46,381	594
1933	184.9	46.6	44,727	591
1934	228.7	51.0	47,061	772
2. Asbestos industry:				
1932	6.4	0.4	1,588	27
1933	7.2	1.2	1,486	24
1934	8.1	1.7	1,617	29

Table 2

Production Costs in the Rubber Industry 1)

(Per cent of total)

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages 1)	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1932	51.5	2.4	2.3	29.7	8.4	5.7	100.0
1934	59.8	4.0	2.2	21.3	6.3	6.4	100.0

1) Enterprises of Industrial Commissariats.

Table 3

Power Supply in the Rubber Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers[1]	Thous. of kw.	10.6	8.4	8.5	7.9	7.9	7.9	8.0
Capacity of electric generators[1]	»	1.6	1.6	1.6	1.2	1.2	1.4	1.4
Capacity of electric motors[1]	»	11.0	12.8	15.7	19.8	32.5	41.3	46.1
Including: Capacity of electric motors utilizing purchased power	»	11.0	12.8	15.7	19.8	32.5	40.5	45.8
Capacity of prime movers and electric motors driving operating machinery[1]	»	20.0	19.6	22.6	26.5	39.2	47.8	52.7
Power generated by prime movers	Millions of kw-hours	14.3	16.4	21.7	29.8	36.8	37.2	33.6
Power generated by electric generators	»	2.6	2.6	1.3	1.0	1.2	2.5	1.6
Purchased power	»	16.2	24.0	36.7	52.5	73.2	102.4	131.4
Sale of power •	»	0.1	0,1	0.1	0.3	5.4	6.9	1.4
Total consumption of power[2]	»	30.4	40.3	58.3	82.0	104.6	132.7	163.6
a) Electric energy	»	18.7	26.5	37.9	53.2	69.0	98.0	131.6
Electric energy used as motive power	»	16.4	24.7	34.9	48.7	60.1	86.0	117.2
b) Mechanical energy used for driving operating machinery	»	11.4	13.5	20.3	28.7	35.5	34.4	31.8
Coefficient of centralization of electric power supply	—	86.1	90.1	96.7	98.2	98.4	97.6	98.8
Coefficient of electrification of industrial processes	—	59.2	64.7	63.2	62.9	62.9	71.4	78.8
Total power supply per worker	Kw-hours per man-hour	0.76	0.93	1.20	1.17	1.35	1.78	1.96
Electric power supply per worker	»	0.47	0.61	0.78	0.76	0.89	1.31	1.58

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[1] As at end of year.

[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 4

Production of Rubber Goods

Description	In terms of:	1913	1927-28	1932	1933	1934	1935
A	B	1	2	3	4	5	6
Automobile tires	Units	19,170	81,526	543,776	672.482	1,534,716	2,077,447
Including: Tires for trucks of over 2½ ton capacity	"	1)	16,697	179,866	275,339	504,037	668,005
Motor cycle tires	"	1)	2,848	8,867	6,699	12.281	6,304
Bicycle tires	Thous. of units	78	91	497	834	821	947
Automobile inner tubes	Units	10,410	89,662	726,785	746,719	1,444,466	2,398,796
Including: inner tubes for trucks of over 2½ ton capacity	"	1)	18,271	229,012	309,697	452,584	781,986
Motor cycle inner tubes	"	1)	3,421	13.543	6,596	14,452	7,103
Bicycle inner tubes	Thous. of units	78	153	577	825	921	1,250
Rubber footwear	Thous. of pairs	27,885	36,275	64,711	62,235	65,004	76,490
Including: Rubber galoshes	"	1)	29,860	51,850	49,084	50,190	55,206
Rubber soles and heels	Tons	—	—	22,629	31,301	32,976	38,341

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1) No data available.

10. BUILDING MATERIALS

Table 1

Summary for the Production of Mineral Building Materials

Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
All industries engaged in the production of mineral building materials				
1926	208.7	63.9	71,765	156
1927	220.1	65.6	72,196	183
1928	237.3	77.2	86,194	246
1929	279.7	90.4	105,618	312
1930	418.8	124.1	152,523	425
1931	629.7	166.1	231,546	533
1932	882.3	220.5	239,845	560
1933	1,118.9	264.4	206,664	501
1934	1,332.3	304.6	218,902	679
1. Cement industry				
1926	96.4	43.1	17,272	51
1927	98.9	43.1	17,816	54
1928	101.2	47.8	18,379	68
1929	105.2	54.0	19,638	82
1930	121.7	65.8	25,320	114
1931	157.0	85.8	28,155	134
1932	213.4	100.7	28,325	135
1933	234.1	102.5	24,786	105
1934	293,4	115.4	25,702	128
2. Production of other binding materials 1)				
1932	62.1	5.8	30,718	54
1933	65.1	9.3	22,643	44
1934	73,8	11.0	24,459	65
3. Production of refractory and acid-proof materials 2)				
1932	131.4	25.6	26,025	76
1933	184.2	32.3	28,947	84
1934	256.4	41.9	32,450	122
4. Production of building brick 3)				
1932	407.2	76.2	132,727	195
1933	525.3	96.9	107,052	154
1934	569.3	110.0	111,634	212
5. Production of other wall and facing materials 4)				
1932	32.6	4.0	13,470	46
1933	54.4	11.7	15,703	56
1934	74.2	14.4	16,856	81
6. Production of clay and cement asbestos tubes				
1932	7.7	2.1	1,569	6
1933	20.3	3.3	1,659	7
1934	23.7	2.8	2,115	11
7. Production of roofing materials 5)				
1932	27.8	6.1	7,011	48
1933	35.6	8.4	5,874	51
1934	41.5	9.1	5,686	60

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1) Alabaster, lime, natural (Roman) cement and chalk powder.

2) Chamotte brick, Dinas brick and magnesite products; quartz clay refractory brick; acid-resisting earthenware.

3) Clay, silica and slag building brick.

4) Insulating concrete, gas-concrete and slag concrete blocks; screen, insulating, ceramic and facing materials; Metlach tiles and stave facing tile.

5) Production of roofing tile, roofing paper, rubberoid, artificial slate and other roofing materials. Figures are exclusive of natural roofing slate output, which is included under „Mineral raw materials for building construction".

Production Costs in the Cement Industry Itemized [1]

(Per cent of total)

Table 2

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1932	18.7	19.8	6.1	32.8	9.1	13.5	100.0
1934	17.9	21.4	7.8	32.4	9.5	11.0	100.0

Power Supply in the Mineral Building Materials Industry

Table 3

Indices	In terms of	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
1. Cement Industry								
Capacity of prime movers [1])	Thous. of kw	37.5	42.9	38.7	33.0	39.7	32.6	30.1
Capacity of electric generators [1])	"	31.1	35.1	32.3	28.5	35.7	27.4	27.7
Capacity of electric motors [1])	"	41.4	46.2	59.4	81.3	96.7	97.3	113.0
Including: Capacity of electric motors utilizing purchased power	"	9.0	12.2	31.4	51.4	65.3	70.9	80.9
Capacity of prime movers and electric motors driving operating machinery [1])	"	47.8	54.0	65.8	85.8	100.7	102.5	115.4
Power generated by prime movers	Millions of kw-hours	130.5	158.2	157.5	136.0	134.5	86.3	87.9
Power generated by electric generators		98.9	119.9	129.9	113.6	109.6	71.8	71.4
Purchased power	"	14.7	20.5	60.9	136.3	184.9	184.5	252.6
Sale of power	"	6.0	8.3	10.1	25.5	30.6	17.8	21.8
Total consumption of power [2])	"	139.2	170.4	208.3	246.8	288.8	253.0	318.7
a) Electric energy	"	107.6	132.1	180.7	224.4	263.9	238.5	302.2
Electric energy used as motive power	"	94.1	123.6	166.0	204.8	240.7	218.1	278.6
b) Mechanical energy used for driving operating machinery	"	20.8	25.1	13.4	9.9	12.8	6.6	8.6
Coefficient of centralization of electric power supply	—	13.0	14.6	31.9	54.7	62.8	68.1	78.0
Coefficient of electrification of industrial processes	—	81.9	83.2	92.5	95.4	94.9	97.1	97.0
Total power supply per worker	Kw-hours per man-hour	3.59	4.32	4.34	4.90	5.70	5.73	6.59
Electric power supply per worker	"	2.79	3.33	3.79	4.50	5.25	5.37	6.29

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[1]) As at end of year.

[2]) Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
II. Binding Materials								
Capacity of prime movers ¹)	Thous. of kw	1.8	1.8	3.2	3.3	4.4	5.5	5.4
Capacity of electric generators ¹)	"	0.1	0.1	0.4	0.7	1.1	1.3	1.1
Capacity of electric motors ¹)	"	0.2	0.2	0.4	1.5	2.5	5.1	6.7
Including: Capacity of electric motors utilizing purchased power	"	0.2	0.2	0.3	1.0	1.8	3.9	5.7
Capacity of prime movers and electric motors driving operating machinery ¹)	"	1.9	1.9	3.2	4.1	5.8	9.3	11.0
Power generated by prime movers	Millions of kw-hours	4.6	5.5	8.3	6.5	8.1	10.7	12,7
Power generated by electric generators	"	0.1	0.2	0.7	0.7	1.8	2.4	2.8
Purchased power	"	0.1	0.1	0.6	1.2	3.3	5.8	8.0
Sale of power	"	—	—	0.1	0.1	0.3	1.4	1.3
Total consumption of power ²)	"	4.7	5.6	8.8	7.6	11.1	15.1	19.4
a) Electric energy	"	0.2	0.3	1.2	1.8	4.8	6.8	9.5
Electric energy used as motive power	"	0.1	0.1	0.9	1.3	3.8	5.2	7.4
b) Mechanical energy used for driving operating machinery	"	4.5	5.4	7.6	5.7	6.1	8.0	9,7
Coefficient of centralization of electric power supply	—	45.5	41.9	48.1	63.2	65.5	71.0	74.2
Coefficient of electrification of industrial processes	—	2.2	2.4	10.2	18.1	38.1	39.3	43.6
Total power supply per worker	Kw-hours per man-hour	0.41	0.37	0.29	0.26	0.36	0.50	0.53
Electric power supply per worker	"	0.04	0.04	0.07	0.09	0.23	0.31	0.37
III. Brick Industry								
Capacity of prime movers ¹)	Thous. of kw	11.0	11.7	14.7	20.7	29.2	33.0	39.0
Capacity of electric generators ¹)	"	1.1	1.3	1.8	4.2	4.9	7.0	7.5
Capacity of electric motors ¹)	"	8.5	12.2	20.7	33.8	51.9	68.9	78.5
Including: Capacity of electric motors utilizing purchased power	"	7.5	10.7	18.2	28.2	45.6	64.3	72.3
Capacity of prime movers and electric motors driving operating machinery ¹)	"	18.4	22.6	33.6	50.3	76.2	96.9	110.0
Power generated by prime movers	Millions of kw-hours	12.2	18.3	22.8	33.6	51.2	51.2	69.3
Power generated by electric generators	"	0.7	1.3	3.9	5.6	8.0	11.4	13.6
Purchased power	"	6.9	11.3	24.1	37.9	65.1	72.8	87.1
Sale of power	"	0.1	0.2	0.3	1.4	2.2	3.8	5.4
Total consumption of power ²)	"	19.0	29.4	46.6	70.1	114.1	120.2	151.0
a) Electric energy	"	7.5	12.4	27.7	42.1	70.9	80.4	95.3
Electric energy used as motive power	"	5.7	10.6	24.0	37.1	62.8	70.7	84.7
b) Mechanical energy used for driving operating machinery	"	11.5	16.8	18.5	27.4	42.4	38.6	54.3
Coefficient of centralization of electric power supply	—	91.3	89.5	86.0	87.3	89.0	86.5	86.5
Coefficient of electrification of industrial processes	—	33.0	38.7	56.6	57.5	59.8	64.7	61.1
Total power supply per worker	Kw-hours per man-hour	0.30	0.35	0.42	0.49	0.76	0.91	0.97
Electric power supply per worker	"	0.12	0.16	0.27	0.34	0.56	0.73	0.77

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¹) See footnotes on page 178.

Output of Mineral Building Materials, as of 1934
I. Production of Brick and Refractory Materials

Republics, Regions and Territories	Common brick (thousands)	Silica and slag brick (thousands)	Chamotte brick (grog) (tons)	Dinas brick (tons)
A	1	2	3	4
U. S. S. R.	**4,343,818**	**597,137**	**1,344,594**	**334,233**
I. **R. S. F. S R.**	2,912,658	453,370	664,516	97,929
Northern Territory	47,675	—	—	—
Karelian A.S.S.R.	15,753	—	—	—
Leningrad Region	297,593	62,337	189,251	—
Western Region	69,496	19,281	18,503	2,276
Kalinin Region	55,683	7,133	245	—
Moscow Region	635,494	158,795	143,509	—
Including Moscow	70,812	30,466	1,027	—
Ivanovo Region	148,164	44,823	5,162	—
Gorky Territory	87,760	66,607	10,542	—
Kirov Territory	41,954	—	2,358	2,478
Kursk Region	79,086	—	—	—
Voronezh Region	88,603	6,129	87,914	—
Sverdlovsk Region	200,337	6,105	81,992	44,589
Cheliabinsk Region	147,659	—	40,103	22,456
Omsk Region	34,041	—	—	—
Bashkir A.S.S.R.	33,862	3,557	14,049	4,648
Tatar A.S.S.R	43,472	19,562	—	—
Kuibyshev Territory	60,532	16,896	840	—
Orenburg Region	19,898	—	150	—
Stalingrad Territory	45,069	24,409	7,484	—
Saratov Territory	23,981	9,924	206	—
Azov-Black Sea Territory	139,402	1,773	22,963	7,745
Northern Caucasus Territory	96,160	—	—	—
Crimean A.S.S.R.	13,738	2,678	—	—
Kazakhstan A.S.S.R.	75,332	—	174	—
Kara-Kalpak A.S.S.R.	1,448	—	—	—
Kirghiz A.S S.R.	8,076	—	—	—
West Siberian Territory	243,787	2,897	23,381	13,737
Krasnoyarsk Territory	18,990	—	12,163	—
East Siberian Territory	92,817	192	3,527	—
Yakut A.S.S.R.	[1]	—	—	—
Far Eastern Territory	45,060	272	—	—
II. **Ukrainian S.S.R.**	991,570	142,340	675,441	236,304
Vinnitsa Region	57,734	—	44,752	—
Dniepropetrovsk Region	185,577	67,253	135,242	28,186
Donetz Region	246,432	42,761	490,525	208,118
Kiev Region	176,350	—	—	—
Odessa Region	42,081	—	70	—
Kharkov Region	234,789	32,004	4,852	—
Chernigov Region	39,237	322	—	—
Moldavian A.S.S.R.	9,370	—	—	—
III. **White Russian S.S.R.**	182,974	1,427	600	—
IV. **Transcaucasian S.F.S.R.**	80,182	—	4,037	—
Georgian S.S.R.	60,135	—	3,458	—
Armenian S.S.R.	4,659	—	—	—
Azerbaidjan S.S.R.	15,388	—	579	—
V. **Uzbek S.S.R.**	135,587	—	—	—
VI. **Turkmenian S.S.R.**	30,871	—	—	—
VII. **Tadjik S.S.R.**	9,976	—	—	—

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[1] For 1934 no data available. U.S.S.R. total includes figures for 1933.

II. Production of Binding Materials, as of 1934

(Tons)

Republics, Regions and Territories	Cement (Portland), slag, trass, puzzuolana and magnesite	Lime	Alabaster	Gypsum
A	1	2	3	4
U. S. S. R.	**3,532,808**	**2,635,565**	**627.013**	**61,523**
I. **R. S. F. S. R.**	2,494,660	1,668,735	387,148	30,452
Northern Territory	—	7,160	15,086	378
Karelian A.S S.R.	—	6,407	—	—
Leningrad Region	137,603	220,130	10,869	3,752
Western Region	169,180	28,910	—	—
Kalinin Region	—	28,816	—	—
Moscow Region	405,179	252,425	35,183	522
Including Moscow	—	44,109	30,938	522
Ivanovo Region	—	51,936	9,737	—
Gorky Territory	—	63,377	57,589	9,905
Kirov Territory	—	24,377	549	—
Kursk Region	—	99,690	—	—
Voronezh Region	88,812	139,542	—	—
Sverdlovsk Region	178,531	116,938	79,961	1,917
Cheliabinsk Region	68,878	93,744	1,032	—
Omsk Region	—	214	263	—
Bashkir A S.S.R.	—	11,793	23,678	—
Tatar A.S.S.R.	—	29,195	29,212	—
Kuibyshev Territory	29,898	35,607	46,439	837
Orenburg Region	—	7,813	14,809	—
Stalingrad Territory	—	26,648	6,418	1,936
Saratov Territory	434,929	23,512	—	—
Azov-Black Sea Territory	832,004	110,757	5,762	10,174
Northern Caucasus Territory	—	58,309	5,682	—
Crimean A.S.S.R.	—	37,603	289	—
Kazakhstan A.S.S.R.	1,446	42,092	11,510	1,031
Kara-Kalpak A.S.S.R.	—	1,227	185	—
Kirghiz A.S.S.R.	—	1,878	—	—
West Siberian Territory	122,467	88,516	—	—
Krasnoyarsk Territory	—	6,779	11,977	—
East Siberian Territory	—	44,404	20,918	—
Yakut A.S.S.R.	—	794	—	—
Far Eastern Territory	25,733	28,142	—	—
II. **Ukrainian S. S. R.**	645,165	717,739	201,589	27,110
Vinnitsa Region	—	160.352	10,521	4,582
Dniepropetrovsk Region	90,648	79,840	2.501	—
Donetz Region	543 654	301,000	186,313	20,908
Kiev Region	1,200	70	—	—
Odessa Region	—	21,529	1,225	—
Kharkov Region	9,663	33.545	—	1,620
Chernigov Region	—	30,965	1,029	—
Moldavian A.S.S.R.	—	90,438	—	—
III. **White Russian S. S. R.**	24,282	29,552	—	—
IV. **Transcaucasian S. F. S. R.**	262,689	150,093	26,259	3,685
Georgian S.S.R.	106.083	81.826	1,952	132
Armenian S.S.R.	56,905	32,949	20,678	—
Azerbaidjan S S.R.	99,701	35,318	3,629	3,553
V. **Uzbek S. S. R.**	106,012	34,599	9,545	276
VI. **Turkmenian S. S. R.**	—	11,667	1,947	—
VII. **Tadjik S. S. R.**	—	3,180	525	—

Table 6

III. Production of Roofing Materials, as of 1934

Republics, Regions and Territories	Tile (thousands of units)	Roofing paper (rolls)	Rubberoid (thousands of rolls)
A	1	2	3
U. S. S. R.	59,552	5,024	726
I. R. S. F. S. R.	24,617	3,359	726
Northern Territory	—	—	—
Karelian A. S. S. R.	—	—	—
Leningrad Region	1,403	1,416	586
Western Region	298	—	—
Kalinin Region	1,755	—	—
Moscow Region	—	1,196	140
Including Moscow	—	1,196	140
Ivanovo Region	62	41	—
Gorky Territory	—	150	—
Kirov Territory	20	—	—
Kursk Region	206	—	—
Voronezh Region	240	—	—
Sverdlovsk Region	126	37	—
Cheliabinsk Region	62	—	—
Omsk Region	56	—	—
Tatar A. S. S. R.	132	—	—
Kuibyshev Territory	49	346	—
Azov-Black Sea Territory	1,492	45	—
Northern Caucasus Territory	13,938	—	—
Crimean A. S. S. R.	3,240	—	—
Kazakhstan A. S. S. R.	547	—	—
Kirghiz A. S. S. R.	133	—	—
West Siberian Territory	858	44	—
Krasnoyarsk Territory	—	—	—
East Siberian Territory	—	84	—
II. **Ukrainian** S. S. R.	16,515	1,657	—
Vinnitsa Region	1,109	—	—
Dniepropetrovsk Region	3,709	—	—
Donetz Region	2,437	413	—
Kiev Region	401	482	—
Odessa Region	4,548	762	—
Kharkov Region	2,969	—	—
Chernigov Region	32	—	—
Moldavian A. S. S. R.	1,310	—	—
III. **White Russian** S. S. R.	2,169	—	—
IV. **Transcaucasian** S. F. S. R.	12,571	—	—
Georgian S. S. R.	8,294		—
Armenian S. S. R.	1,692	—	
Azerbaidjan S. S. R.	2,585	—	
V. **Uzbek** S. S. R.	3,479	8	—
VI. **Turkmenian** S. S. R.	201	—	—

Table 4

Output of Sawn Timber, Plywood and Matches

	In terms of:	1913	1928	1929	1930	1931	1932	1933	1934	1935
A	B	1	2	3	4	5	6	7	8	9
Sawn timber [1] . .	Thousands of cubic meters	11,875	13,633	16,585	21,884	23,839	24,427	27,334	30,579	34,000
Plywood (unedged)	"	130	185	247	339	385	423	424	497	554
Matches	Thousands of cases	3,757	5,532	6,845	9,419	7,675	5,642	6,876	9,114	10,854

Table 5

Production of Plywood: By Republics, Regions and Territories [2]

(In thousands of cubic meters)

Republics, Regions and Territories	1933	1934
A	1	2
U. S. S. R.	424.3	497.0
I. R. S. F. S. R.	240.1	287.9
Northern Territory	9.3	9.8
Leningrad Region	91.6	102.6
Western Region	18.1	20.0
Kalinin Region	8.1	9.4
Ivanovo Region	15.5	18.8
Gorky Territory	42.6	53.8
Omsk Region	9.3	14.4
Bashkir A.S.S.R.	4.0	12.3
Tatar A.S.S.R.	35.6	37.4
Northern Caucasus Territory	—	1.8
Far Eastern Territory	6.0	7.6
II. Ukrainian S.S.R.	34.8	36.0
III. White Russian S.S.R.	147.4	171.1
IV. Transcaucasian S.F.S.R.	2.0	2.0

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[1] Preliminary data.
[2] Data refer to unedged plywood.

Table 6

Output of Sawn Timber, 1934: By Republics, Regions and Territories

Republics, Regions and Territories	Total sawn timber		Including:	
	Thousands of cubic meters	Per cent of total	Coniferous trees	Foliaceous trees
			Thousands of cubic meters	
A	1	2	3	4
U. S. S. R.	**30,578.6**	**100.0**	**28,927.1**	**1,651.5**
I. R. S. F. S. R.	26,774.9	87.6	25,958.5	816.4
Northern Territory	4,433.8	14.5	4,433.8	—
Karelian A S.S.R.	1,175.1	3.8	1,175.1	–
Leningrad Region	2,920.5	9.6	2,856,7	63.8
Western Region	1,109.6	3.6	1,048 8	60.8
Kalinin Region	865.4	2.8	865.3	0.1
Moscow Region	1,358.9	4.4	1,311.2	47.4
Ivanovo Region	1,311.3	4.3	1,275.9	35.4
Gorky Territory	2,226 5	7.3	2,167.2	59.3
Kirov Region	631.6	2.1	610.7	20.9
Kursk Region	20.2	0.1	15.9	4.3
Voronezh Region	292.6	1.0	246.1	46.5
Sverdlovsk Region	1,759.7	5.8	1,754.7	5.0
Cheliabinsk Region	339.5	1.1	338.8	0.7
Omsk Region	539.4	1.8	533.9	5.5
Bashkir A.S.S.R.	247.3	0.8	176.1	71.2
Tatar A.S.S.R.	255.5	0.8	249.4	6.1
Kuibyshev Territory	1,482.9	4.8	1,370.5	112.4
Orenburg Region	92.6	0.3	92.0	0.6
Stalingrad Region	1,459 8	4.8	1,455.5	4.3
Saratov Region	394.1	1.3	394 1	—
Azov-Black Sea Territory	184.6	0.6	98.5	86.1
Northern Caucasus Territory	139.6	0.4	46.1	93.5
Crimean A.S.S R.	32 4	0.1	25.0	7.4
Kazakhstan A.S.S.R.	116.9	0.4	116.9	—
Kirghiz A S.S.R.	20.4	0.1	20.4	—
West Siberian Territory	824.9	2.7	824.9	—
Krasnoyarsk Territory	723.6	2.4	723.6	—
East Siberian Territory	742.9	2.4	742 9	—
Yakut A.S.S.R.	21.6	0.1	21.6	—
Far Eastern Territory	1,052.0	3.4	966.9	85.1
II. **Ukrainian S. S. R.**	2,174.8	7.1	1,566.3	608.5
III. **White Russian S. S. R.**	1,373.4	4.5	1,312.4	61.0
IV. **Transcaucasian S. F. S. R.**	249.5	0.8	83.9	165.6
V. **Uzbek S. S. R.**	6.0	—	6.0	—

Table 7

Output of Cut Timber

(In millions of cubic meters)

	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7
Total	139.8	170.2	199.5	176.1	178.7	201.6	208.0
Building timber	85.1	112.2	128.9	103.5	98.9	108.2	117.0
Firewood	54.7	58.0	70.6	72.6	79.8	93.4	91.0

Table 8

Lumber Removed from Forests

(In millions of cubic meters)

	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7
Total	95.5	147.2	159.8	164.7	173.3	181.3	203.2
Building timber	60.0	96.7	104.1	99.4	98.0	99.7	112.9
Firewood	35.5	50.5	55.7	65.3	75.3	81.6	90.3

Table 9

Lumber Removed from forests as of 1934: By Republics, Regions and Territories

Republics, Regions and Territories	Total		Including:	
	Millions of solid cubic meters	Per cent of total	Building timber	Firewood
			(millions of solid cubic meters)	
A	1	2	3	4
U. S. S. R.	**181.3**	**100.0**	**99.7**	**81.6**
I. R. S. F. S. R.	164.0	90.5	89.3	74.7
Northern Territory	19.1	10.5	14.5	4.6
Karelian A.S.S.R.	7.4	4.1	5.7	1.7
Leningrad Region	17.4	9.6	9.2	8.2
Western Region	6.4	3.5	3.6	2.8
Kalinin Region	6.8	3.8	3.9	2.9
Moscow Region	8.4	4.6	2.6	5.8
Ivanovo Region	12.2	6.7	5.1	7.1
Gorky Territory	12.6	6.9	7.2	5.4
Kirov Territory	8.3	4.6	4.7	3.6
Kursk Region	0,5	0.3	0.3	0.2
Voronezh Region	2.3	1.3	1.4	0.9
Sverdlovsk Region	18.5	10.2	7.3	11.2
Cheliabinsk Region	4.4	2.4	1.4	3.0
Omsk Region	1.4	0.8	0.6	0.8
Bashkir A.S.S.R.	3.0	1.7	1.1	1.9
Tatar A.S.S.R.	2.1	1.2	0.9	1.2
Kuibyshev Territory	8,9	4.8	4.0	4.9
Orenburg Region	0.2	0.1	0.1	0,1
Stalingrad Region	0.4	0.2	0.1	0.3
Saratov Region	0.3	0.2	—	0.3
Azov-Black Sea Territory	0.8	0.5	0.4	0.4
Northern Caucasus Territory	0.6	0,3	0.3	0.3
Crimean A.S.S.R.	0.1	0.1	—	0.1
Kazakhstan A.S.S.R.	0.9	0.5	0.3	0.6
Kirghiz A.S.S.R.	0.1	0.1	0.1	—
West Siberian Territory	6.4	3.5	4.2	2.2
Krasnoyarsk Territory	2.2	1.2	1.5	0.7
East Siberian Territory	5.4	3.0	3.7	1.7
Yakut A.S.S.R.	0.7	0.4	0.4	0.3
Far Eastern Territory	6.2	3.4	4.7	1.5
II. Ukrainian S. S. R.	7.5	4.1	4.9	2.6
III. White Russian S. S. R.	8.8	4.8	5.0	3.8
IV. Transcaucasian S. F. S. R.	0,9	0.5	0.5	0.4
V. Turkmenian S. S. R.	0.1	0.1	—	0.1

Table 1

Summary for the Paper Industry [1]

Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
1926	134.5	67.3	27,342	142
1927	145.8	73.5	27,604	139
1928	161.3	85.1	26,751	165
1929	221.0	125.5	30,445	237
1930	244.0	133.7	35,566	261
1931	285.1	148.4	38,610	267
1932	321.2	178.6	40,888	275
1933	359.6	190.4	45,123	302
1934	391.2	209.6	45,274	335

Table 2

Production Costs in the Paper Industry Itemized [2]

(Per cent of total)

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
1932	40.2	14.4	5.7	25.1	5.8	8.8	100.0
1934	39.7	15.4	5.8	23.8	6.0	9.3	100.0

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[1] To 1929 inclusive of cardboard manufacturing enterprises.

[2] Enterprises of Industrial Commissariats.

Table 3

Power Supply in the Paper Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers[1]	Thousands of kw	67.0	92.0	94.0	105.9	109.2	105.8	111.5
Capacity of electric generators[1]	„	38.5	59.5	62.0	76.2	79.1	78.3	83.2
Capacity of electric motors[1]	„	56.6	93.0	101.7	118.7	148.5	162.9	181.3
Including: Capacity of electric motors utilizing purchased power	„	15.0	29.2	41.4	50.8	66.0	76.7	81.3
Capacity of prime movers and electric motors driving operating machinery[1]	„	85.1	125.5	133.7	148.4	178.6	190.4	209.6
Power generated by prime movers	Millions of kw-hours	297.0	366.6	468.0	470.4	494.3	558.4	614.0
Power generated by electric generators	„	141.6	205.9	268.4	318.0	335.0	394.3	445.6
Purchased power	„	11.4	80.2	109.1	164.3	211.5	233.7	237.7
Sale of power	„	6.0	8.0	13.7	23.5	32.4	32.8	33.6
Total consumption of power[2]	„	302.4	438.8	563.4	611.2	673.4	759.3	818.1
a) Electric energy	„	147.0	278.1	363.6	458.8	514.1	595.2	649.7
Electric energy used as motive power	„	142.2	258.2	343.6	424.6	473.5	545.8	589.7
b) Mechanical energy used for driving operating machinery	„	139.9	138.0	170.1	117.4	122.5	120.7	119.4
Coefficient of centralization of electric power supply	—	7.5	28.0	28.9	34.1	38.7	37.2	29.1
Coefficient of electrification of industrial processes	—	50.4	65.2	66.9	78.3	79.4	81.9	83.2
Total power supply per worker	Kw-hours per man-hour	4.49	6.58	8.54	9.12	9.64	9.67	9.71
Electric power supply per worker	„	2.31	4.12	5.52	6.97	7.59	7.68	7.85

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[1] As at end of year.

[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 4

Output of Paper, Cardboard, Cellulose and Wood Pulp

(Thousands of tons)

Year	Paper	Cardboard	Cellulose	Wood pulp
A	1	2	3	4
1913	197.0	20.0	41.0	55.4
1924-25	211.0	23.5	55.0	56.0
1925-26	254.0	33.0	68.0	70.0
1926-27	268.0	44.5	75.6	73.2
1927-28	284.5	47.1	86.0	84.0
1928-29	384.9	62.5	126.1	150.9
1930	495.3	77.0	172.0	211.8
1931	505.2	62.0	185.0	223.8
1932	478.5	73.0	185.2	250.8
1933	506.1	79.0	206.3	277.1
1934	565.8	90.0	239.0	286.0
1935	641.0	106.0	271.0	320.0

Table 5

Output of Paper: By Kinds

(Thousands of tons)

Kinds of Paper	1932	1933	1934
A	1	2	3
Paper—total	478.5	506.1	565.8
Printing paper	238.7	248.0	267.0
Including: Newsprint	153.2	158.7	178.1
Writing paper	48.9	56.0	60.3
Including: Copy (exercise) books	15.1	20.5	27.6
Album paper	14.5	8.7	10.3
Book cover paper	16.9	24.3	24.6
Wall paper	7.8	7.6	13.4
Wrapping paper	54.9	64.6	98.6
Cigarette mouthpiece paper	17.7	17.6	18.7
Cigarette paper	3.9	1.9	1.3
Wax paper	5.2	7.6	4.5
Filter paper	0.2	0.4	0.3
Cash register bands	0.9	0.5	1.6
Other kinds of paper	68.9	68.9	65.2

13. TEXTILE INDUSTRY

Table 1

Summary for the Textile Industry

	Year	Fixed capital as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	B	1	2	3	4
All textile industry 1) . . .	1926	1,845.7	403.6	628,753	2,962
	1927	1,915.2	434.0	667,210	3,407
	1928	2,006.4	457.8	729 810	4,106
	1929	2,147.6	466.6	788,330	4,844
	1930	2,280.9	509.7	760,705	4,807
	1931	2,370.2	521.1	747,221	5,021
	1932	2.491.3	536 7	843,120	5,664
	1933	2 647.3	559.7	823,317	5,987
	1934	2,832.3	592 4	876,220	6,683
Including:					
1. Cotton goods	1932	1,574.9	365.5	451,388	3,047
	1933	1,592.0	371.5	440,182	3,186
	1934	1,640.9	389.5	463,959	3,496
2. Linen goods	1932	209.1	42.7	64,515	216
	1933	212.4	43.7	56,145	216
	1934	215.1	45.9	66,689	250
3. Woolen and worsted goods	1932	227.7	49.4	75,451	607
	1933	241.6	49 8	70,260	616
	1934	257.8	50.8	71,458	596
4. Silk goods	1932	44.8	5.2	21,132	199
	1933	47.0	5.3	20,058	235
	1934	49.9	5.6	21,728	282
5. Hemp and jute goods . .	1932	69.7	18.6	36,824	137
	1933	72.7	16.5	34,913	166
	1934	81.3	17.3	39,285	193
6. Knitted goods	1932	102.0	11.3	93,237	559
	1933	129.0	13.1	101,402	690
	1934	151.0	14.1	111,361	854
7. Felt goods	1932	36.9	8.5	31,142	155
	1933	52.5	10.5	24,767	140
	1934	59.9	11.4	23,001	156
8. Primary treatment of textile fibers	1932	203.2	31.6	66,209	648
	1933	274.9	45.6	72,560	655
	1934	347.8	53.6	75,721	770
Including:					
a) Cotton ginning	1932	75.8	11.7	11,629	479
	1933	87.2	16.1	13,877	470
	1934	109.8	19.2	14,343	531
b) Flax and hemp dressing	1932	78.9	14.4	32,715	49
	1933	135.4	22.1	39,102	67
	1934	168.7	25.8	39,751	75
c) Wool washing	1932	5.4	0.8	1,511	47
	1933	5.4	1.5	1,598	47
	1934	9.9	1.5	2,196	81
d) Silk reeling	1932	22.5	1.0	16,058	44
	1933	22.6	1.5	13,886	42
	1934	27.4	1.6	15,120	47
e) Production of cottonized fiber	1932	20.6	3.7	4,296	29
	1933	24.3	4.4	4,097	29
	1934	32.0	5.5	4,311	36

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1) Including knitted and felt goods. Prior to 1931 the felt goods industry is not included, no separate data being available.

Table 2

Production Costs in the Textile Industry Itemized ¹)

(Per cent of total)

	Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	B	1	2	3	4	5	6	7
All textile industry ¹)	1932	65.9	3.6	2.8	19.7	4.5	3.5	100.0
	1934	65.4	4.1	2.1	19.7	4.9	3.8	100.0
Including:								
1. **Cotton goods**	1932	65.7	3.7	3.0	18.9	4.3	4.4	100.0
	1934	63.7	4.6	2.4	20.4	5.0	3.9	100.0
2. **Linen goods**	1932	56.0	4.8	3.7	25.0	6.1	4.4	100.0
	1934	55.9	6.2	2.8	25.2	6.2	3.7	100.0
3. Woolen and worsted goods	1932	59.1	4.9	3.0	23.2	5.4	4.4	100.0
	1934	65.1	5.5	1.9	18.8	4.7	4.0	100.0
4. **Silk goods**	1932	73.7	1.5	1.7	15.7	3.7	3.7	100.0
	1934	81.9	1.2	0.8	11.5	2.8	1.8	100.0
5. **Hemp and jute goods**	1932	54.9	3.1	3.6	26.5	6.3	5.6	100.0
	1934	54.1	3.9	3.1	27.5	6.8	4.6	100.0
6. **Knitted goods**	1932	53.9	2.9	2.6	29.3	7.0	4.3	100.0
	1934	57.0	3.1	2.0	27.2	6.5	4.2	100.0
7. **Felt goods**	1932	53.5	4.8	1.6	29.1	6.6	4.4	100.0
	1934	61.0	6.1	2.1	20.7	5.6	4.5	100.0
8. **Primary treatment of textile fibers**								
a) Cotton ginning	1932	87.7	0.4	0.9	4.8	1.0	5.2	100.0
	1934	88.8	0.4	0.8	4.8	1.5	3.7	100.0
b) Silk reeling	1932	53.8	7.3	1.7	26.0	6.7	4.5	100.0
	1934	67.0	4.7	0.9	16.5	4.9	6.0	100.0
c) Production of cottonized fiber	1932	60.0	5.4	3.4	20.1	5.7	5.4	100.0
	1934	53.9	8.4	3.9	21.3	5.8	6.7	100.0

¹) Enterprises of Industrial Commissariats.

Table 3

Power Supply in the Textile Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
1. Cotton Ginning								
Capacity of prime movers [1]	Thous of kw	8.5	8.8	9.1	9.5	11.0	13.6	16.6
Capacity of electric generators [1]	„	0.9	0.8	0.8	1.0	1.4	1.6	2.3
Capacity of electric motors [1]	„	0.8	0.8	0.7	1.3	2.1	4.1	4.9
Including: Capacity of electric motors utilizing purchased power	„	0.5	0.6	0.6	1.1	1.6	2.9	3.7
Capacity of prime movers and electric motors driving operating machinery [1]	„	8.4	8.8	9.0	9.8	11.7	16.1	19.2
Power generated by prime movers	Millions of kw-hours	25.7	27.3	29.5	35.0	45.1	49.9	62.0
Power generated by electric generators	„	2.3	2.2	2.2	2.7	3.2	4.7	5.8
Purchased power	„	0.9	0.9	1.0	2.5	4.1	6.9	7.1
Sale of power	„	0.5	0.0	0.0	0.0	0.1	2.2	1.4
Total consumption of power [2]	„	26.1	28.2	30.5	37.5	49.1	54.6	67.7
a) Electric energy	„	2.7	3.1	3.2	5.2	7.2	9.4	11.5
Electric energy used as motive power	„	1.2	1.4	1.4	3.0	4.6	5.2	8.3
b) Mechanical energy used for driving operating machinery	„	23.1	24.8	27.0	32.0	41.5	44.6	55.6
Coefficient of centralization of electric power supply	—	26.4	29.0	31.8	48.1	56.2	59.3	54.8
Coefficient of electrification of industrial processes	—	4.8	5.2	4.9	8.4	9.9	12.3	16.1

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[1] As at end of year.

[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
II. Cotton Goods								
Capacity of prime movers 1)	Thous. of kw	277.3	254.9	255.4	193.3	188.1	161.5	161.7
Capacity of electric generators 1)	»	142.8	145.2	157.8	121.1	108.5	89.8	87.8
Capacity of electric motors 1)	»	214.4	239.5	264.0	290.3	285.9	299.8	315.6
Including: Capacity of electric motors utilizing purchased power	»	98.1	127.3	144.0	202.2	202.6	233.5	253.8
Capacity of prime movers and electric motors driving operating machinery 1)	»	348.9	349.2	361.6	362.5	365.5	371.5	389.5
Power generated by prime movers	Millions of kw-hours	883.4	859.8	673.2	567.3	537.6	480.7	482.0
Power generated by electric generators	»	379.5	397.7	354.2	291.6	274.7	263.0	250.3
Purchased power	»	227.2	321.9	361.8	492.3	623.9	728.3	850.2
Sale of power	»	28.8	30.3	53.9	39.9	52.7	70.2	71.8
Total consumption of power 2)	»	1,081.8	1,151.4	981.1	1,019.7	1,108.8	1,138.8	1,260.4
a) Electric energy	»	577.9	689.3	662.1	744.0	845.9	921.1	1,028.7
Electric energy used as motive power	»	520.0	620.7	583.7	658.9	749.2	818.1	918.0
b) Mechanical energy used for driving operating machinery	»	462.2	418.3	280.0	243.6	232.6	188.8	204.2
Coefficient of centralization of electric power supply	—	37.4	44.7	50.6	62.8	69.4	73.5	77.3
Coefficient of electrification of industrial processes	—	52.9	59.7	67.6	75.0	76.3	81.3	81.9
Total power supply per worker	Kw-hours per man-hour	1.06	1.29	1.33	1.50	1.53	1.44	1.51
Electric power supply per worker	»	0.61	0.76	0.94	1.11	1.17	1.17	1.24

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1)2) See footnotes on page 196.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
III. Linen Goods								
Capacity of prime movers 1)	Thous. of kw.	34.8	33.6	31.7	30.9	28.8	28.2	28.3
Capacity of electric generators 1)	"	13.9	13.1	10.3	13.8	12.9	12.8	13.0
Capacity of electric motors 1)	"	12.2	14.9	24.1	26.7	26.8	28.3	30.6
Including: Capacity of electric motors utilizing purchased power	"	4.0	6.2	14.2	15.9	17.0	17.8	22.1
Capacity of prime movers and electric motors driving operating machinery 1)	"	33.1	35.4	45.5	43.8	42.7	43.7	45.9
Power generated by prime movers	Millions of kw-hours	96.1	107.3	84.1	55.2	62.6	68.2	73.8
Power generated by electric generators	"	19.4	26.9	22.9	22.4	25.9	28.4	31.7
Purchased power	"	8.7	9.8	30.7	35.3	38.9	46.9	62.9
Sale of power	"	1.5	1.5	2.6	3.0	3.8	5.4	7.7
Total comsumption of power 2)	"	103.3	115.6	112.2	87.5	97.7	109.7	129.7
a) Electric energy	"	26.6	35.2	51.0	54.7	61.0	69.9	86.9
Electric energy used as motive power	"	21.6	28.9	42.6	45.9	51.1	58.7	74.5
b) Mechanical energy used for driving operating machinery	"	74.5	77.4	58.7	30.4	33.8	36.7	38.7
Coefficient of centralization of electric power supply	—	31.0	26.8	57.2	61.2	60.0	62.3	66.5
Coefficient of electrification of industrial processes	—	22.5	27.1	42.0	60.2	60.2	61.6	65.9
Total power supply per worker	Kw-hours per man-hour	0.61	0.71	0.76	0.77	0.92	1.08	1.05
Electric power supply per worker	"	0.16	0.21	0.36	0.51	0.58	0.69	0.71

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1)2) See footnotes on page 196.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
IV. Hemp and Jute Goods								
Capacity of prime movers [1]	Thous. of kw.	11.3	10.2	10.3	9.3	9.7	7.1	7.4
Capacity of electric generators [1]	"	5.7	5.1	5.1	5.0	5.2	4.5	5.0
Capacity of electric motors [1]	"	7.0	9.0	11.7	12.9	14.1	13.9	14.9
Including: Capacity of electric motors utilizing purchased power	"	3.0	6.0	7.4	8.5	9.0	9.2	10.1
Capacity of prime movers and electric motors driving operating machinery [1]	"	12.6	14.1	16 9	17.2	18.6	16.5	17.3
Power generated by prime movers	Millions of kw-hours	30.0	29.2	37.9	33.1	31.8	21.9	25.4
Power generated by electric generators	"	10.9	11.7	15.7	14.8	15.7	12.3	13.9
Purchased power	"	7.5	12.4	25.9	25.2	20.8	24.1	26.8
Sale of power	"	1.1	0.7	0.5	1.3	1.8	1.6	1.4
Total consumption of power [2]	"	36.4	40.9	63.3	57.0	50.8	44.4	50.8
a) Electric energy	"	17.3	23.4	41.1	38,7	34.7	34.8	39.3
Electric energy used as motive power	"	15.2	20.6	33.5	33.3	27.5	29.5	33.2
b) Mechanical energy used for driving operating machinery	"	17.9	16.2	20.5	16.7	14.4	8.2	9.9
Coefficient of centralization of electric power supply	—	40.6	51.4	62.3	63.0	57.0	66.2	65.8
Coefficient of electrification of industrial processes	—	46.1	55.9	62.0	66.7	65.7	78.2	77.0
Total power supply per worker	Kw-hours per man-hour	0.73	0.79	1.01	1.06	1.05	1.05	1.17
Electric power supply per worker	"	0.35	0.45	0.66	0.73	0.76	0.84	0.93

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[1][2] See footnotes on page 196.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
V. Woolen and Worsted Goods								
Capacity of prime movers 1)	Thous. of kw	26.7	26.3	28.1	28.3	28.6	28.6	27.9
Capacity of electric generators 1)	"	17.4	18.3	18.0	17.8	17.6	18.4	18.4
Capacity of electric motors	"	26.2	29.2	37.0	37.6	39.2	41.1	42.8
Including: Capacity of electric motors utilizing purchased power	"	17.4	18.2	21.2	23.4	21.2	23.5	25.1
Capacity of prime movers and electric motors driving operating machinery 1)	"	35.5	37.2	47.1	48.1	50.2	51.3	52.3
Power generated by prime movers	Millions of kw-hours	80.8	86.7	106.6	105.3	103.3	104.1	100.9
Power generated by electric generators	"	22.6	33.5	49.4	52.8	51.2	54.0	53.8
Purchased power	"	37.9	48.6	63.7	67.7	69.7	70.9	73.4
Sale of power	"	3.2	3.7	3.4	3.8	6.6	8.9	10.1
Total consumption of power 2)	"	115.5	131.6	166.9	168.2	166.4	166.2	164.2
a) Electric energy	"	57.3	78.4	109.7	115.7	114.3	116.1	117.1
Electric energy used as motive power	"	54.6	69.7	93.4	95.8	93.8	98.4	96.8
b) Mechanical energy used for driving operating machinery	"	55.7	49.5	51.7	46.7	46.4	44.2	41.2
Coefficient of centralization of electric power supply	—	62.7	59.2	56.3	56.2	57.6	56.7	57.7
Coefficient of electrification of industrial processes	—	49.5	58.4	64.4	67.2	66.9	69.0	70.3
Total power supply per worker	Kw-hours per man-hour	0.87	1.03	1.25	1.23	1.24	1.29	1.31
Electric power supply per worker	"	0.43	0.61	0.82	0.85	0.87	0.92	0.95

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1)2) See footnotes on page 196.

Table 3 (Continued)

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
VI. Silk Goods								
Capacity of prime movers[1]	Thous. of kw	2.6	1.7	2.1	2.0	1,1	0.9	1.0
Capacity of electric generators [1]	»	2.7	1.5	1,3	1.2	0.4	0.5	0,6
Capacity of electric motors [1]	»	4.5	4.7	4.8	4.5	4.5	4.9	5.2
Including: Capacity of electric motors utilizing purchased power	»	4.3	4.6	4.6	4.3	4.2	4.7	5.0
Capacity of prime movers and electric motors driving operating machinery[1]	»	4.5	4.9	5.6	5.3	5.2	5.3	5,6
Power generated by prime movers	Millions of kw-hours	2.9	2.6	2.1	2.3	2.7	1.9	2.2
Power generated by electric generators	»	2.0	1.7	0.8	1.0	1.2	0.6	1.2
Purchased power	»	3.1	4.6	8.6	9.4	9.9	13.0	13.6
Sale of power	„	0.4	0.4	0.4	0.4	0.2	0.6	0.6
Total consumption of power[2]	„	5.6	6.8	10.3	11.3	12.4	14.3	15.2
a) Electric energy	»	4.7	5.9	9.0	10.0	10.9	13.0	14.2
Electric energy used as motive power	„	3.9	4.9	7.3	7.9	8.7	10.4	10.7
b) Mechanical energy used for driving operating machinery	„	0.7	0.7	1.2	1.2	1.4	1.3	0.8
Coefficient of centralization of electric power supply	—	60.6	72.7	91.6	90.2	89.4	95.9	91.8
Coefficient of electrification of industrial processes	—	85.6	88.5	85.8	87.2	86.1	89.3	92.4
Total power supply per worker	Kw-hours per man-hour	0.31	0.34	0.38	0.41	0.46	0.43	0.43
Electric power supply per worker	„	0.26	0.29	0.36	0.38	0.42	0.40	0.42

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[1][2] See footnotes on page 196.

Table 4

Output of the Cotton Ginning Industry

(In tons)

Products	1928-29	1929-30	1931	1932	1933	1934	1935 [2]
A	1	2	3	4	5	6	7
1 Cotton fiber [1] . . .	237,938	257,406	337,730	389,824	378,543	419,734	439,000
Including:							
American seed . . .	237,938	257,384	336,392	386,254	370,838	407,987	—
Upper Egyptian seed .	—	22	440	1,744	3,309	4,012	—
Lower Egyptian seed .	—	—	898	1,826	4,396	7,734	—
2. Cottonseed	516,875	531,574	712,083	808,376	776,410	859,920	—
3. Cotton discards . . .	15,500	15,973	18,230	21,747	20,359	22,359	—
a) Linter (short staple) including linter produced at:							
Cotton ginning plants .	1,885	1,918	3,925	5,943	5,100	5,850	—
Cottonseed-oil mills .	13,615	14,055	14,305	15,804	15,259	16,509	—
b) "Uliuk" (light, non-mature staple) . .	407	503	745	1,373	1,463	1,678	—
c) "Akhlat" (other kinds of cotton waste) . .	66	80	155	325	384	427	—

Table 5

Territorial Distribution of the Cotton Ginning Industry [3]

Republics, Regions and Territories	Number of gins, as of Sept. 15, 1934	Output of cotton fiber (thousands of tons)			
		1931	1932	1933	1934
A	1	2	3	4	5
U. S. S. R.	785	337.7	389.8	373.2	419.7
I. **R. S. F. S. R.**	103	32.4	51.7	41.0	39.8
Northern Caucasus and Azov-Black Sea Territories	30	5.5	9.6	8.9	6.3
Crimean A S.S.R.	2	0.6	1.4	0.4	0.4
Kazakhstan A.S.S.R.	45	11.2	20.2	15.5	14.9
Kara-Kalpak A.S.S.R.	16	8.3	11.0	7.4	8.5
Kirghiz A.S.S.R.	10	6.8	9.5	8.8	9.7
II. **Ukrainian S. S. R.**	34	1.9	11.4	5.0	2.4
III. **Transcaucasian S. F. S. R.**	94	27.0	47.7	38.8	49.4
Azerbaidjan S.S.R.	77	22.2	41.6	32.8	43.4
Armenian S.S.R.	13	3.6	3.9	4.5	4.5
Georgian S.S.R.	4	1.2	2.2	1.5	1.5
IV. **Uzbek S. S. R.**	441	230.0	230.2	242.4	272.0
V. **Turkmenian S. S. R.**	71	35.0	37.2	34.2	42.2
VI. **Tadjik S. S. R.**	42	11.4	11.6	11.8	13.9

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[1] Figures for 1928-29, 1929-30, 1931 and 1932 are exclusive of cotton ginned at State Farms; figures for 1933 and 1934 include same (1933—5,337 tons; 1934—4,707 tons).

[2] Preliminary data.

[3] Figures for 1931, 1932 and 1933 are exclusive of cotton ginned at State Farms; figures for 1934 include same.

Table 6

Consumption of Cotton in the Textile Industry

Year	Total cotton consumption		Imported cotton	
	Thousands of tons	Per cent of previous year	Thousands of tons	Per cent of total cotton consumed
A	1	2	3	4
1924-25	211.5	—	107.1	50.6
1925-26	266.5	126.0	103.1	38.7
1926-27	306.8	115.1	162.7	53.0
1927-28	354.0	115.8	145.1	41.0
1928-29	380.2	107.4	115,0[1]	30.2
1929-30	325.1	85.5	57.9[1]	17.8
1931	349.4	107.4	53.7	15.4
1932	407.3	116.5	24.3	6.0
1933	405.3	99.5	22.5	5.5
1934	444.1	109.5	24.9	5.6

Table 7

Output of Flax Scutching Plants

Kinds of Fiber	1932		1933		1934	
	Output of fiber (tons)	Average count	Output of fiber (tons)	Average count	Output of fiber (tons)	Average count
A	1	2	3	4	5	6
1. **Fiber** (exclusive of oakum and bast)	**59,440**	**6.0**	**87,594**	**4.9**	**103,413**	**5.1**
Long staple	14,196	13.1	18,147	12.2	25,811	12.0
Tow	13,489	4.5	17,145	4.2	20,948	4.2
Turbine waste	31,755	3.5	52,302	2.6	56,654	2.3
Also:						
2. **Oakum**	**11,395**	—	**8,994**	—	**7,776**	—
3. **Bast** [2]	—	—	**3,061**	—	**2,843**	—

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[1] Data for calendar years 1929 and 1930.

[2] Fiber obtained from flax-straw, without biological treatment (retting).

Table 8

Quality of Flax Fiber (Dressed) at Industrial Plants: By Republics, Regions and Territories

Republics, Regions and Territories	1933		1934	
	Average count of long staple fiber	Per cent of long staple fiber to total output	Average count of long staple fiber	Per cent of long staple fiber to total output
A	1	2	3	4
U. S. S. R.	**12.2**	**20.7**	**12.0**	**25.0**
I. R. S. F. S. R.	12.2	21.4	12.1	25.1
Northern Territory	13.8	35.1	11.2	37.6
Leningrad Region	12.2	23.7	11.9	27.1
Western Region	11.2	15.5	10.8	18.1
Kalinin Region	12,5	20.7	12.3	25.0
Moscow Region	11.2	30.7	11.6	17.0
Ivanovo Region	13.1	30.4	12.9	37.3
Gorky Territory	11.1	18.0	10.7	17.6
Kirov Territory	11.9	18.2	11.8	23.2
Sverdlovsk Region	10.4	14.5	10.9	16.5
Omsk Region	10.8	12.8	11.1	14.5
West Siberian Territory	13.4	20.9	11.5	16.6
Krasnoyarsk Territory	11,1	31.4	10.5	23.4
East Siberian Territory	8.4	17.9	10.2	7.0
II. White Russian S. S. R.	11.1	14.0	10.9	23.7

Table 9

Output of Hemp Scutching Plants

(Tons)

Kinds of Fiber	1932	1933	1934
A	1	2	3
I. Hemp	3,104	8,340	8,038
Long-staple fiber	570	791	838
Tow	2,073	5,364	5,213
Turbine waste	461	2,185	1,987
II. Oakum	791	207	95
III. Bast [1]	10,062	20,374	18,866
Long-staple fiber	1,984	2,234	1,607
Tow	6,610	14,705	13,900
Turbine waste	1,468	3,435	3,359

[1] Fiber obtained from hemp stalks, without biological treatment.

Table 10

Output of Raw Silk

(Tons)

	1927-28	1928-29	1930	1931	1932	1933	1934	1935 1)
A	1	2	3	4	5	6	7	8
Raw silk	396.7	618.5	762.2	810.2	836.8	774.2	901.0	1,135.0

Table 11

Output of Cottonized Fiber

(Tons)

	1930	1931	1932	1933	1934
A	1	2	3	4	5
Total	**3,658**	**9,236**	**16,031**	**19,140**	**20,588**
Of which:					
Cotton goods	392	935	1,781	4,323	5,899
Fine woolen and worsted fabrics	1,522	2,697	2,260	6,110	2,509
Coarse woolen and worsted fabrics	756	3,632	6,385	4,531	7,515
Production of cotton wool	988	1,972	5,605	4,070	4,404
Production of paper	—	—	—	106	261

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1) Preliminary data.

Table 12

Output of Cotton Goods

Description	In terms of:	1930	1931	1932	1933	1934	1935 [1]
A	B	1	2	3	4	5	6
Cotton yarn	Thousands of tons	287.4	313.8	355.1	367.3	387.7	379
Unbleached cotton cloth	Millions of meters	2,515.0	2,541.0	2,689.7	2,701.3	2,672.7	2,574
Unbleached cotton cloth	Thousands of tons	252.0	262.5	286.7	289.4	304.7	—
Finished cotton cloth	Millions of meters	2,351.0	2,242.0	2,417.1	2,422.0	2,437.7	2,390
Undressed fabrics (gauze and rags, fabrics for process purposes, hand-woven fabrics)	"	—	—	276.6	310.0	295.0	—
Thread (spool cotton)	Millions of spools	584.2	631.4	590.6	715.0	639.0	539

Table 13

Output of Cotton Fabrics: According to Weave

(Per cent of total output)

Year	Plain (calico) weave	Twill weave	Satin weave	Jacquard weave	Armure (figured prints and other combined weaves)
A	1	2	3	4	5
1933	60.0	18.2	14.6	1.0	6.1
1934	58.5	18.3	14.2	1.2	7.8

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[1] Preliminary data.

Table 14

Output of Cotton Fabrics: According to Purpose for Which Used [1]

(Millions of meters)

Description	1933	1934
A	1	2
Total cotton fabrics	**2,732**	**2,733**
Including:		
I. Cotton fabrics for household linen and underwear (cambric, nainsook, damask, etc.)	407	488
Cambric	159	167
"Biaz"—(inexpensive cotton stuffs)	213	254
Other cotton goods for same purpose	35	67
II. Cotton dress goods	1,228	1,150
Calico, printed and dyed	494	422
Cotton prints ("Biaz")	81	91
Sateen and satinet	224	249
Marquisette, batiste, voile and other light cotton fabrics	113	97
Fustian, cotton flannel and baize	66	78
Other cotton dress goods	250	213
III. Cotton suitings and overcoat fabrics	319	336
IV. Lining materials	151	165
V. Shawls, scarfs and blankets	73	86
VI. Upholstering and mattress materials	29	62
VII. Fabrics for process purposes	106	89
VIII. Gauze and rags	258	248

Table 15

Cotton Fabrics: Grouped According to Finishing Method

(Per cent of total output)

Year	Dyed cotton fabrics	Bleached cotton goods	Mixed and colored cotton fabrics	Unbleached cotton goods
A	1	2	3	4
1933	61.9	17.4	6.0	14.7
1934	59.7	19.7	6.8	13.8

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[1] **Undressed fabrics (gauze and rags, fabrics for process purposes, etc.) are also included. Printed and dyed calicos and "Biaz" fabrics and prints for sundry uses are included under "cotton dress goods", according to chief use.**

Table 16

Output of Cotton Goods: By Republics, Regions and Territories

Republics, Regions and Territories	1932				1934			
	Cotton yarn (thousands of tons)	Unbleached cotton cloth (millions of meters)	Finished cotton fabrics (millions of meters)	Cotton thread (millions of spools)	Cotton yarn (thousands of tons)	Unbleached cotton cloth (millions of meters)	Finished cotton fabrics (millions of meters)	Cotton thread (millions of spools)
A	1	2	3	4	5	6	7	8
U. S. S. R.	**355.1**	**2,689.7**	**2,417.1**	**591**	**387.7**	**2,672.7**	**2,437.7**	**639**
I. **R. S. F. S. R.**	346.7	2,636.7	2,390.9	591	378.2	2,605.9	2,406.4	639
Leningrad Region	38.5	143.4	122.2	418	45.1	147.1	131.3	484
Western Region	5.6	42.1	0.7	—	5.6	34.4	--	—
Kalinin Region	33.5	221.5	247.0	—	30.0	213.0	228.7	—
Moscow Region	119.5	908.4	978.7	173.0	136.9	930.2	1,027.7	155
Ivanovo Region	146.6	1,292.7	1,019.0	—	157.0	1,251.8	997.2	—
Gorky Territory	—	9.1	9.1	—	—	11.4	11.3	—
Saratov Territory	2.1	11.6	10.9	—	2.4	10.2	9.2	—
Azov-Black Sea Territory	—	0.8	—	—	0.1	0.3	0.7	—
Northern Caucasus Territory	0.9	7.1	3.3	—	0.9	7.3	0.2	—
West Siberian Territory	—	—	—	—	0.2	0.2	0.1	—
II. **Ukrainian S. S. R.**	0.0	2.2	—	—	0.1	3.0	0.7	—
III. **White Russian S. S. R.**	—	4.9	4.0	—	—	4.4	3.9	—
IV. **Transcaucasian S. F. S. R.**	6.0	32.2	14.6	—	6.8	43.5	19.8	—
Azerbaidjan S.S.R.	3.7	22.8	14.6	—	4.3	30.6	19.8	—
Armenian S.S.R.	2.1	9.3	—	—	2.2	12.8	—	—
Georgian S.S.R.	0.2	0.1	—	—	0.3	0.1	—	--
V. **Uzbek S. S. R.**	1.5	8.5	7.6	—	1.9	9.4	6.9	—
VI. **Turkmenian S. S. R.**	0.9	5.2	—	—	0.7	6.5	—	—
VII. **Tadjik S. S. R.**	—	—	—	—	—	—	—	—

Table 17

Output of Woolen and Worsted Goods

Description	In terms of:	1932	1933	1934	1935 1)
A	B	1	2	3	4
Yarn	Thousands of tons	71.0	67.5	61.0	65.0
Unbleached cloth	Millions of meters	93.3	93.4	82.7	91.0
Finished fabrics	„	88.7	86.1	77.9	83.5

Table 18

Output of Woolen and Worsted Fabrics: By Kinds

Description	Finished fabrics (thousands of meters)		Per cent of total output	
	1933	1934	1933	1934
A	1	2	3	4
Total fabrics	**86,103**	**77,890**	**100.0**	**100.0**
1. Worsted fabrics	15,734	15,876	18.3	20.4
Including:				
Coat and dress fabrics	15,184	15,592	17.6	20.0
Shawls and scarfs	133	72	0.2	0.1
2. Fine woolen fabrics	37,804	32,925	43.9	42.3
Including:				
Suitings and overcoat fabrics	30,500	26,230	35.4	33.7
Blankets	400	367	0.5	0 5
Shawls and scarfs	4,546	3,394	5.3	4.4
3. Coarse woolen fabrics	32,565	29,089	37.8	37.3
Including:				
Blankets	3,702	3,777	4.3	4.8
Fabrics for process purposes	2,382	2,552	2.8	3.3

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1) Preliminary data.

Table 19

Output of Linen Goods

Description	1932	1933	1934	1935
A	1	2	3	4
Yarn (thousands of tons)	54.5	57.6	66.8	83.0
Linen (millions of sq. m.)	135.7	142.7	159.8	213.2

Table 20

Output of Silk and Rayon Goods

Year	Silk and rayon twist (tons)	Silk yarn (tons)	Woven silk goods (thousands of meters)	Including:		
				Plain fabrics	Pile fabrics	Silk for sieves
A	1	2	3	4	5	6
1927-28	201.1	80.4	9,600.9	8,936 9	664.0	—
1928-29	265.6	106.6	13,038.5	12,182.7	826.7	29.1
1930	405.6	155.6	17,822.8	16,505.5	1,199.5	117.8
1931	410.8	161.6	19,484.5	17,988.8	1,381.1	114.6
1932	545.4	154.1	21,458 9	19,604.9	1,773.1	80.9
1933	617.8	165.6	25,992.0	24,084.0	1,815.0	92.5
1934	713.0	202.0	31,233.0	28,413.0	2,677.0	143.0
1935	—	228.0	37,900.0	—	—	

Table 21

Output of Silk and Rayon Fabrics: By Kinds

(Thousands of meters)

Description	1932	1933	1934
A	1	2	3
Total silk and rayon fabrics	21,459	25,992	31,233
I. Plain fabrics	19,605	24,084	28,413
Silk	6,373	9,275	10,356
Silk mixed with cotton	3,373	3,725	4,089
Rayon	6,404	4,515	7,090
Rayon mixed with silk		74	2
Rayon mixed with cotton		6,281	6,399
Piece goods (pattern lengths)	1,251	1,013	1,130
II. Pile fabrics	1,773	1,815	2,677
III. Silk for sieves	81	93	143

Table 22

Output of Knitted Goods

Description	In terms of:	1932	1933	1934	1935 [1]
A	B	1	2	3	4
Hose and half-hose	Millions of pairs	208.0	250.9	322.9	353.7
Underwear	Millions of units	27.3	36.1	53.7	70.0
Outer garments	„	11.7	17.2	22.4	26.2

[1] Preliminary data.

14. LEATHER, FUR AND BOOT AND SHOE INDUSTRY

Table 1

Summary for the Leather, Fur and Boot and Shoe Industries

Year	Fixed capital as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)	Average annual number of wage-earners	Gross output, in prices of 1926-27 (millions of rubles)
A	1	2	3	4
Leather, fur and boot and shoe industries—totals				
1926	150.4	28.7	57,432	451
1927	163.7	37.2	63,486	530
1928	194.2	45.2	85,246	680
1929	220.5	52.2	131,216	1,102
1930	265.3	57.6	216,031	1,606
1931	304.4	65.1	285,571	1,856
1932	345.9	71.3	301,202	1,952
1933	382.3	75.0	262,820	1,791
1934	430.4	77.8	235,857	1,733
Including:				
1. Leather industry[1]				
1926	97.2	21.2	37,251	310
1927	105.1	27.0	39,136	352
1928	124.7	31.7	41,849	370
1929	138.5	35.6	49,695	576
1930	167.5	36.0	60,071	689
1931	171.3	43.7	66,211	767
1932	185.9	46.2	64,710	702
1933	202.8	45.8	54,235	535
1934	231.5	48.9	49,422	528
2. Fur industry				
1926	5.4	0.4	1,305	9
1927	6.1	0.5	2,046	19
1928	7.5	1.6	4,081	37
1929	11.7	2.4	7,521	68
1930	13.4	4.0	14,016	121
1931	27.7	4.0	19,923	251
1932	37.4	6.4	30,425	384
1933	44.7	7.3	31,053	434
1934	53.5	7.6	28,848	447
3. Boot and shoe industry				
1926	47.8	7.1	18,876	132
1927	52.5	9.7	22,304	159
1928	62.0	11.9	39,316	273
1929	70.3	14.2	74,000	458
1930	84.4	17.6	141,944	796
1931	105.4	17.4	199,437	838
1932	122.6	18.7	206,067	866
1933	134.8	21.9	177,532	822
1934	145.4	21.3	157,587	758

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[1] Leather (including artificial leather) and leather goods other than boots and shoes.

Table 2

Production Costs in the Leather, Fur and Boot and Shoe Industry Itemized [1])

(Per cent of total)

Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	1	2	3	4	5	6	7
Leather and boot and shoe industry [2])							
1932	63.8	2.2	1.2	23.0	5.7	4.1	100.0
1934	66.1	2.7	1.4	20.3	5.5	4.0	100.0

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[1]) Enterprises of Industrial Commissariats.

[2]) Returns for the leather industry and the boot and shoe industry are given jointly, as production costs submitted by the respective trusts controlling both branches of industry did not at the time differentiate between them.

Table 3

Power Supply in the Leather and Boot and Shoe Industry

Indices	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Capacity of prime movers [1]	Thous. of kw.	18.6	18.6	18.2	20.5	18.1	20.7	19.8
Capacity of electric generators [1]	"	12.3	13.7	15.3	15.6	14.6	17.0	16.9
Capacity of electric motors [1]	"	37.3	44.9	50.7	56.2	61.4	64.0	67.3
Including: Capacity of electric motors utilizing purchased power	"	23.4	30.0	37.1	39.5	46.8	47.5	52.6
Capacity of prime movers and electric motors driving operating machinery [1]	"	43.6	49.8	53.6	61.1	64.9	67.7	70.2
Power generated by prime movers	Millions of kw-hours	45.5	49.4	52.0	57.1	58.3	54.5	49.8
Power generated by electric generators	"	23.8	31.5	36.1	41.6	41.5	36.9	36.3
Purchased power	"	33.3	51.1	64.2	83.2	99.2	85.9	98.8
Sale of power	"	1.6	2.2	1.5	4.3	4.9	5.8	6.9
Total consumption of power [2]	"	77.2	98.3	114.7	136.0	152.6	134.6	141.7
a) Electric energy	"	55.5	80.4	98.8	120.5	135.8	117.0	128.2
Electric energy used as motive power	"	48.4	69.9	83.8	101.5	113.3	96.5	105.3
b) Mechanical energy used for driving operating machinery	"	19.1	14.5	12.0	10.9	12.3	13.5	9.5
Coefficient of centralization of electric power supply	—	58,3	61.9	64.1	66.7	70.5	69.9	73.1
Coefficient of electrification of industrial processes	—	71.7	82.7	87.4	90.3	90.3	87.8	91.9
Total power supply per worker	Kw-hours per man-hour	0.58	0.58	0.47	0.56	0.63	0.58	0.71
Electric power supply per worker	"	0.44	0.49	0.43	0.51	0.58	0.54	0.66

Table 4

Output of Boots and Shoes [3]

(Thousands of pairs)

	1913	1928	1929	1930	1931	1932	1933	1934	1935 [4]
A	1	2	3	4	5	6	7	8	9
Total [5]	8.349	29,588	48,780	75,447	86,685	84.749	80,267	75,514	85,500

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[1] As at end of year.

[2] Total consumption of power exceeds the sum of a) plus b) owing to losses incurred in converting mechanical energy into electric power.

[3] Large-scale industry.

[4] Preliminary data.

[5] Exclusive of felt and rubber boots and shoes.

Table 5

Output of Boots and Shoes: By Republics, Regions and Territories [1]

(Thousands of pairs)

Republics, Regions and Territories	1933	1934
A	1	2
U. S. S. R.	**80,267**	**75,514**
I. R. S. F. S. R.	60,613	56,385
Northern Territory	44	51
Karelian A.S.S.R.	17	17
Leningrad Region	18,859	18,028
Western Region	345	392
Kalinin Region	3.347	3,190
Moscow Region	18 676	17,175
Ivanovo Region	2,008	1.833
Gorky Territory	747	614
Kirov Territory	3 465	2,980
Kursk Region	1,143	978
Voronezh Region	162	203
Sverdlovsk Region	940	1,242
Cheliabinsk Region	58	29
Omsk Region	344	381
Bashkir A.S.S.R.	222	171
Tatar A S.S.R.	2,154	1,839
Kuibyshev Territory	498	347
Orenburg Region	49	22
Stalingrad Territory	251	148
Saratov Territory	221	281
Azov-Black Sea Territory	4,855	4,003
Northern Caucasus Territory	340	244
Crimean A.S.S.R	400	544
Kazakhstan A S.S.R.	302	243
Kara-Kalpak A.S.S.R.	10	5
Kirghiz A.S.S.R.	22	31
West Siberian Territory	196	438
Krasnoyarsk Territory	380	394
East Siberian Territory	414	462
Yakut A.S.S.R.	62	59
Far Eastern Territory	82	41
II. **Ukrainian S.S.R.**	11,899	11,496
III. **White Russian S.S.R.**	2,952	3,221
IV. **Transcaucasian S.F.S.R.**	2,405	2,065
Georgian S S.R.	1,635	1,355
Armenian S.S.R.	68	72
Azerbaidjan S.S.R.	702	638
V. **Uzbek S.S.R.**	1,427	1,375
VI. **Turkmenian S.S.R.**	27	121
VII. **Tadjik S.S.R.**	28	27
Not distributed by regions	916	824

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[1] Large-scale industry.

16. FOOD INDUSTRY

Table 1

Summary for the Food Industry

	Year	Fixed capital, as at end of year (millions of rubles)	Capacity of prime movers and electric motors driving operating machinery, as at end of respective year (thousands of kw)	Average annual number of wage-earners [1]	Gross output, in prices of 1926-27 (millions of rubles)
A	B	1	2	3	4
All food industry	1928	1,530.7	323.3	279,443	3,655
	1929	1,598.0	321.6	292,995	4,070
	1930	1,793.2	348.3	317.648	4,810
	1931	2,208.6	370.8	392,720	5,859
	1932	2,756.0	435.9	562,838	6,627
	1933	3,258.4	527.3	604,830	7.241
	1934	3,880.6	599.7	673,189	8,790
Including:					
1. Vegetable oils	1932	123.4	29.4	15,854	255
	1933	127.8	30.0	13,941	176
	1934	141.5	31.5	16,434	217
2. Oleomargarine	1932	15.1	2.5	1,274	47
	1933	24.1	3.8	2,321	90
	1934	36.0	6.1	2,851	126
3. Flour-milling and grain mill products	1932	404.7	164.4	38,541	1,110
	1933	420.2	196.1	40,067	1,333
	1934	473.0	205.9	47,612	1,526
4. Macaroni, noodles, etc.	1932	21.5	4.8	6,069	68
	1933	24.6	5.2	4,900	60
	1934	28.3	5.8	5,980	72
5. Bread baking and other bakery products	1932	113.7	9.8	48,261	691
	1933	209.2	19.8	61,390	858
	1934	270.6	23.5	71.172	1,120
6. Starch, molasses and syrup	1932	59.2	17.3	10,104	43
	1933	75.6	17.2	9,905	60
	1934	83.7	18.0	9,914	78
7. Sugar industry	1932	572.0	103.1	69.260	447
	1933	611.7	107.7	66,847	450
	1934	680.5	123.5	83,082	626
8. Confectionery	1932	103.2	13.4	55,477	861
	1933	111.6	14.4	40,968	707
	1934	128.3	14.3	52,316	901
9. Canning industry (canning and preserving)	1932	85.2	11.2	26,947	183
	1933	111.5	13.4	21,120	167
	1934	152.0	17.9	24,602	175
10. Beer and mead, yeast and non-alcoholic beverages	1932	132.5	21.6	15,611	248
	1933	133.0	20.5	16,735	243
	1934	147.0	24.1	17,011	272
11. Tobacco and "makhorka" (coarse tobacco) industry	1932	65.3	7.6	17,476	237
	1933	67.6	8.1	16,466	272
	1934	73.7	8.6	16,564	305

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[1] Figures relating to number of wage-earners are exclusive of fisheries, no data being available prior to 1932. In 1932 the total number of wage-earners at fisheries (excluding collective fishing "Artels") amounted to 93,667.

Table 2

Production Costs in the Food Industry Itemized 1)

(Per cent of total)

	Year	Material and supplies	Fuel and electric energy	Depreciation of fixed capital	Wages	Wage extras (social insurance, etc.)	Other expenditures	Total expenditure
A	B	1	2	3	4	5	6	7
All food industry	**1932**	**76.0**	**3.3**	**1.9**	**11.5**	**2.8**	**4.5**	**100.0**
	1934	**75.3**	**3.9**	**1.6**	**11.2**	**2 9**	**5.1**	**100.0**
Including:								
1. Vegetable oils	1932	82.6	1.6	1.5	8.2	2.2	3.9	100.0
	1934	79,9	1.9	1.7	9.8	2.8	3.9	100.0
2. Oleomargarine	1932	85.6	1.7	1.0	6.3	1.7	3.7	100.0
	1934	87.9	1.7	1.1	5.1	1.5	2.7	100.0
3. Flour-milling and grain mill products	1932	89.6	1.7	1.1	4.7	1.2	1.7	100.0
	1934	88.5	2.0	1.0	5.2	1.3	2.0	100.0
4. Macaroni, noodles, etc.	1932	72.6	3.9	1.8	14.1	3.0	4.6	100.0
	1934	72.2	4.7	1.4	14.0	3.9	3.8	100.0
5. Starch, molasses and syrup	1932	66.4	5.8	3.6	14.2	3.1	6.9	100.0
	1934	64.1	7.4	3.1	14.0	3.4	8.0	100.0
6. Sugar industry	1932	72.2	5.6	4.5	12.5	2.6	2.6	100.0
	1934	73.1	5.3	3.1	11.8	2.6	4.1	100.0
7. Confectionery	1932	81.5	2.1	0.5	10.8	2.5	2.6	100.0
	1934	80.9	2.2	0.6	10.0	2.5	3.8	100.0
8. Canning industry	1932	66.9	2.8	1.3	17.9	4.4	6.7	100.0
	1934	65.5	2.7	2.0	17.3	5.0	7.5	100.0
9. Liquors, vinous	1932	65.1	13.2	2.4	11.5	2.8	5.0	100.0
	1934	61.6	15.4	2.0	13,4	3.2	4.4	100.0
10. Liquors, distilled	1932	87.7	1.6	1.2	5.3	1.5	2.7	100.0
	1934	82.9	2.2	1.1	7.8	2.5	3.5	100.0
11. Beer and mead	1932	54.8	9.3	3.0	20.4	5.3	7.2	100.0
	1934	57.5	9.7	2.4	17.6	4.8	8.0	100.0
12. Tobacco and "makhorka" (coarse tobacco) industry	1932	73.2	1.3	1.7	16.1	4.4	3.3	100.0
	1934	74.2	1.8	1.5	14.0	5.6	2.9	100.0

Table 3

Fishery Products and Sea-Animals 2)

(Thousands of metric centners)

	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
Total fishery products and products of sea-animals	**9,564.3**	**12,826.7**	**14,414.1**	**13,353.8**	**13,030.4**	**15,470.1**
Large-scale fisheries 3)	8,712.2	12,133.4	13,297.2	11,795.0	11,484.1	14,030.7
Small-scale fisheries 4)	852.1	659.9	1,018.6	1,465.7	1,421.0	1,229.9
Sea-animals (seals, whales, etc.)	5)	33.4	98.3	93.1	125.3	209.5

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1) Enterprises of Industrial Commissariats.

2) This and the following tables include the output of State and Cooperative enterprises (collective fisheries, producers' artels, consumers' cooperatives).

3) Sea and river estuary fishing.

4) River, lake and pond fishing.

5) No data available.

Table 4

Large-Scale Fishery Products: By Species

(Thousands of metric centners)

	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
Fish and crabs—total	**8,712.2 [1])**	**12,133.4**	**13,297.2**	**11,795.0**	**11,484.1**	**14,030.7**
1. **Fish**	**8,712.2 [1])**	**11,890.8**	**13,114.1**	**11,630.9**	**11,368.1**	**13,904.7**
Herring	1,886.1	2,643.9	2,723.2	2.543.2	2,624.0	3,151.2
Vimba (vobla)	2,137.6	2,677.3	2,792.8	1,453.5	1,303.5	2,199.7
Large "chastik" [2])	2,146.9	2,806.7	3,267.4	2,792.2	2,746.2	2,836.0
Small "chastik" [3])	434.8	845.1	1,235.2	1,322.0	1,565.6	1,356.8
Cod	442.4	586.1	802.0	649.5	759.8	1,026.8
Salmon	548.4	1,641.8	1,286.9	1,527.3	813.0	1,404.2
Sturgeon	158.9	174.6	238.1	221.4	222.2	213.8
Halibut	—	—	97.1	124.8	143 3	135.7
Other fish	528.1	515.3	671.4	997.0	1,190.5	1,580.5
2. **Crabs**	—	242.6	183.1	164.1	116.0	126.0

Table 5

Catch of Fish: By Fishing Grounds, as of 1934

(Thousands of metric centners)

	Total	Large-scale fisheries	Including: Caspian Sea	Black Sea	White Sea and Arctic sea	Ob River	Far Eastern fisheries	Aral Sea	Balkhash Lake	Minor fisheries
A	1	2	3	4	5	6	7	8	9	10
Fish and crabs—total .	**15,261**	**14,031**	**4,950**	**2,627**	**2,631**	**189**	**3.237**	**265**	**132**	**1,230**
1. **Fish**	**15,135**	**13,905**	**4,950**	**2,627**	**2,631**	**189**	**3,111**	**265**	**132**	**1,230**
Herring	3,178	3,151	629	53	1,147	—	1,322	—	—	27
Vimba (vobla) .	2,215	2.200	2,048	118	—	—	—	34	—	15
Large "chastik" [2])	3,287	2,836	1,578	609	140	49	163	197	100	451
Small "chastik" [3])	1,990	1,357	479	488	188	56	82	32	32	633
Cod	1,027	1,027	—	—	935	—	92	—	—	—
Salmon	1,408	1,404	11	—	38	70	1,285	—	—	4
Sturgeon	234	214	151	45	—	14	2	2	—	20
Halibut	136	136	—	7	21	—	108	—	—	—
"Tyulka"	34	—	—	—	—	—	—	—	—	34
Carp	16	—	—	—	—	—	—	—	—	16
Other fish . . .	1,610	1,580	54	1,307	162	—	57	—	—	30
2. **Crabs**	126	126	—	—	—	—	126	—	—	—

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[1]) 429,007 centners are not distributed by species.

[2]) This group includes: catfish, sander, pike, bream, mackerel, carp, ling, barbel, sea-perch, sea-eel, dorse, etc.

[3]) This group includes: vimba, ruff, gudgeon, lake-trout, perch, tench, smelt, bullhead, etc.

Table 6

Catch of Sea-Animals

(Thousands of metric centners)

Basins	Year	Polar bear	Whale	Seal	Walrus	Sea-hare	Dolphin	Polar dolphin	Other sea-animals	Total
A	B	1	2	3	4	5	6	7	8	9
Total	**1933**	**0.7**	**28.2**	**47.6**	**1.0**	**1.0**	**27.0**	**14.5**	**5.3**	**125.3**
	1934	—	**93.7**	**74.1**	**0.7**	—	**33.9**	**5.5**	**1.6**	**209.5**
Caspian Sea Basin	1933	—	—	14.5	—	—	—	—	—	**14.5**
	1934	—	—	32.0	—	—	—	—	—	**32.0**
Azov-Black Sea Basin	1933	—	—	—	—	—	27.0	—	—	**27.0**
	1934	—	—	—	—	—	33.9	—	—	**33.9**
Northern Basin	1933	0.7	—	33.1	1.0	1.0	—	1.8	0.3	**37.9**
	1934	—	—	42.1	—	—	—	1.1	0.2	**43.4**
Ob Basin	1933	—	—	—	—	—	—	1.4	—	**1.4**
	1934	—	—	—	—	—	—	1.0	-	**1.0**
Far Eastern Basin	1933	—	28.2	—	—	—	—	11.3	5.0	**44.5**
	1934	—	93.7	—	0.7	—	—	3.4	1.4	**99.2**

Table

Catch of Fish and Sea-Animals (Large-Scale Fisheries)

(Thousands of metric centners)

Basins	1929[1]	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
Total	**8,712**	**12,167**	**13,395**	**11,888**	**11,609**	**14,240**
Caspian Sea Basin	5,103	6,040	6,104	**4,101**	4,117	**4,982**
Azov-Black Sea Basin	953	1,475	1,930	**2,248**	2,286	**2,661**
Northern Basin	**447**	754	**1,361**	**1,356**	2,055	**2,674**
Ob Basin	216	307	**377**	252	170	**190**
Far Eastern Basin	1,751	3,186	3,139	**3,468**	2,535	**3,336**
Aral-Balkhash Basin	242	405	484	**463**	446	**397**

[1] *Excluding catch of sea-animals.*

Table 8

Fish and Sea-Animal Products

(Thousands of metric centners)

Products	1932	1933	1934
A	1	2	3
Fish, fresh	1,601	1,742	1,839
„ frozen	1,374	1,330	1,633
„ salted	5,606	5,361	6,501
Including: Herring	1,721	1,587	2,040
Fish, artificially cured and sun-dried	124	101	103
„ smoked	177	201	178
„ pickled	95	222	183
Caviar:	73	43	54
Sturgeon	7	8	8
Salmon	26	15	23
Other species	40	20	23
Other food preparations	49	77	57
Fats			
Cod liver oil for process purposes	29	26	35
„ „ „ „ medical purposes	13	11	17
Sea-animal oil for process purposes	37	41	71
„ „ „ „ medical purposes	4	4	6
Fodder meal	35	52	84
Fertilizer products	23	11	15
Isinglass	4	3	3
Fish skins and scales	7	7	3
Hides and skins of sea-animals	10	11	13
Miscellaneous by-products (inedible)	27	28	71

Table 9

Output of the Canning Industry

(Reduced to terms of millions of conventional 400-gramm cans)

Products	1932	1933		1934	
		Total	Of which: Tin-plate cans	Total	Of which: Tin-plate cans
A	1	2	3	4	5
Total products	**906.1**	**900.4**	**329.0**	**1,121.9**	**362.5**
Canned meat	129.3	108.0	108.0	120.3	120.3
„ fish	161.2	138.0	109.0	131.3	118.8
„ vegetables (excluding tomatoes)	77.2	97.8	65.2	75.1	67.3
Canned tomatoes	223.1	154.1	24.3	175.9	23.6
„ fruit	311.3	391.7	12.3	598.7	13.6
„ milk	3.1	5.4	5.2	11.3	11.0

Table 10

Output of Butter and Cheese

(Tons)

Products	1932	1933	1934
A	1	2	3
Butter	71,588	124,350	138,035
Cheese	14,328	15.562	18,223
"Brynza" (Caucasian cheese)	8,866	8,714	10,147

Table 11

Output of the Oleomargarine Industry

(Tons)

Products	1932	1933	1934
A	1	2	3
Oleomargarine	33,299	38,238	32,777
Compound oil, vegetable	4,370	3,858	26,993
Compound oil, animal	481	9.595	9,413
Cocoa oil	155	109	62

Table 12

Production of Sugar, Granulated and Refined (Loaf)

(Thousands of metric centners)

Products	1932	1933	1934	1935
A	1	2	3	4
Granulated sugar	8,268	9,953	14,035	20,316
Refined sugar (loaf)	4,378	3,493	4,871	7,188

Table 13

Bread Production: by Large-Scale Bakery Plants

	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
Bread (thousands of tons)	1,300	1,656	1,866	2,331	3,072	4,012

Table 14

Output of the Starch and Syrup Industry [1]

(Tons)

Products	1932	1933	1934
A	1	2	3
Dry starch, potato	36,602	60,110	87,598
" " corn	12,064	17,378	13,035
" " wheat	1,106	709	1,315
Syrup, potato	44,790	47,541	56,863
" corn	12,039	22,205	33,485
Dextrine, potato	2,615	2,321	2,718
" corn	205	213	201
Glucose	395	2,476	1,277
Maltose	480	2,567	2,003
Sago	1,148	1,331	1,411

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[1] State industry, Cooperatives and State Farms controlled by the People's Commissariat of Agriculture.

Table 15

Output of Cigarettes and Coaase Smoking Tobacco "Makhorka"

Description	In terms of:	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Cigarettes	Billions units	49.5	57.7	61.7	64.8	57.9	62.7	67 8
"Makhorka"(coarse smoking tobacco)	Thousands of cases	3.179.0	3,183.0	3,158.0	2,837.0	3.219.4	2,513.7	2,898.0

Table 16

Output of Cigarettes, Tobacco and "Makhorka": By Kinds [1]

Description	In terms of:	1933	1934
A	B	1	2
Cigarettes—total	Millions units	**62,656**	**67,781**
Cigarettes, high grade	"	2,275	2,283
" I quality	"	6,327	6,595
" II "	"	18,898	23,189
" III "	"	34,749	35,675
" IV "	"	407	39
Small cigars	Thousands units	1,900	2.416
Cigars	"	5,600	8,598
Smoking tobacco' (in packages)	Tons	3,342	2,802
Pipe tobacco	"	228	503
Chewing tobacco	"	59	—
Green leaf (Mongolian) tobacco	"	980	1,252
Tobacco prepared from scraps and waste	"	925	707
Smoking "makhorka"	Thousands of cases	2,514	2,898
Snuff "makhorka"	"	65	69
Tobacco and "makhorka" products, (unspecified kinds)	Tons	1,909	2,181

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[1] Cut tobacco stalks.

Output of the State Flour-Milling and Grain-Milling Industry, as of 1934 ¹)

Description	Grain milled (thousands of tons)	Description	Grain milled (thousands of tons)
A	1	A	1
Total grain milled	17,959.8	Buckwheat for groats	150.0
Rye—total	7,422.7	Millet for groats	511.1
Flour, 98.5 per cent	1,953.3	Oats for flour	178.7
„ 95.0 „ „	4,662.4	„ for groats	94.2
„ 93.0 „ „	753,2	Barley for flour	373.8
„ 87.0 „ „	53.8	„ for groats	435,3
Wheat—total	8,101.8	Corn for flour	230.1
Flour, 98.5 per cent (coarse-milled)	599.6	„ for groats	10.6
„ 96.0 „ „ „ „	3,516.2	Rice for groats	55.4
„ 85.0 „ „ „ „	2,843.7	Other kinds of flour	371.2
„ 80.0 „ „ „ „	129.6	Other kinds of groats	24.9
„ 72-75 „ „ „ „	1,012.7		

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¹) Including flour mills controlled by the Committee of Products Collections attached to the Council of People's Commissars and by Regional and District Executive Committees.

SUPPLEMENTARY TABLES

1. Output of Main Products of Industry: Summary, By Years
2. Production of Main Industries: Summary, By Months

1. SUMMARY: By Years

Table 1

Output of Main Products of Industry

(In physical units)

Products	In terms of:	1913	1932	1933	1934	1935[1]
A	B	1	2	3	4	5
Electric power	Millions of kw-hours	1,945	13,510	16,357	21,016	25,900
Including:						
District stations	"	431	9,217	11,499	15,274	19,500
Coal and brown coal	Millions of tons	29.1	64.7	76.2	93.9	109.0
Anthracite	"	4.8	18.1	20.7	22.2	24.6
Bituminous coal	"	23.2	39.6	46.6	60.3	69.9
Brown coal	"	1.1	6.9	8.9	11.4	14.5
Crude petroleum (including natural gas in terms of crude petroleum)	Thousands of tons	9,234	22,319	22,458	25,612	26,795
Motor spirit (benzine)	"	156	2,459	2,169	2,310	2,430
Ligroin	"	—	422	486	463	573
Kerosene (refined)	"	1,521	3,560	3,822	4,462	4,877
Lubricating oils	"	337	680	1,133	1,372	1,345
Fuel oil	"	—	8,470	6,504	8,519	8,568
Peat	"	1,688	14,789	13,846	18,254	19,900
Combustible shales	"	—	318.2	201.6	206.4	417.0
Coke[2]	"	4,443	8,421	10,225	14,221	16,752
Iron ore	"	9,214	12,086	14,455	21,509	26,845
Manganese ore	"	1,245	832	1,021	1,821	2,385
Pig iron	"	4,216	6,161	7,110	10,428	12,489
Ferro-alloys produced in electric furnaces	"	—	15.7	20.9	67.0	117.1
Steel ingots and castings	"	4,231	5,927	6,889	9,693	12,600
Rolled steel	"	3,506	4,288	4,882	6,734	8,995
Copper ore	"	881	1,187	1,333	2,083	2,791
Copper (smelter production)	"	31	45	44	53	76
Including:						
Primary copper production (from ore	"	30	31	33	44	63

Asbestos	Thousands of tons	25	60	72	92	96
Mica	Tons	95	7,075	5,721	4,433	8,274
Graphite	"	1,982	32,087	19,159	45,717	83,700
Boilers	Thousands of sq. m.	28.0	166.4	200.3	226.0	197.3
Prime movers, total	Thousands of kw.	—	750.7	1,529.5	1,294.7	2,264.0
Including:						
Steam turbines	"	5.9	239.0	634.5	363.8	672.4 [3])
Water turbines	"	—	59.5	52.9	74.6	52.0
Steam engines	Thousands h. p.	—	31.6	28.5	31.7	38.7
Locomobiles	"	—	35.5	26.9	21.3	51.0
Diesel engines	"	35.1	95.8	92.4	131.4	158.0
Other internal combustion engines	"	—	451.8	996.0	1,008 4	1,843.2
Generators	Thousands of kw.	—	1,164.3	736.5	678.4	732.5
Including:						
Turbo-generators	"	—	826.0	385.0	335.0	425.5
Hydro-generators	"	—	259.0	201.5	131.0	46.9
Direct current and alternating current motors and machines	"	—	2,036.1	1,773.4	1.871.9	2,250.0
Power transformers	Thousands of KVA	96.3	3,426.0	3,330.0	2,874.0	3,461.3
Including:						
Over 1800 KVA capacity	"	—	1,997.4	1,821,0	1,689.2	1,815.3
Machine tools	Units	—	18,124	18,612	21,131	—
Hammers, forging and pressing	"	—	203	269	385	—
Electric welding outfits	"	—	7,803	7,514	6,603	8,872
Acetylene generating units	"	—	9,769	1,952	2,650	3,514
Rolling mills	Tons	—	3,657	6,505	8,455	21,790
Electric furnaces	Units	—	94	85	88	90
Heavy duty coal cutting machines	"	—	244	360	362	423
Chipping hammers	"	—	6,296	6,054	9,578	8,726
Sawmill frames	"	—	134	354	348	397
Looms	Units	—	300	1,928	2,118	3,687
Knitting machines	"	—	1,806	2.555	2,761	—
Steam locomotives [4])	"	664	942	1,014	1,326	1,788
Including:						
Freight locomotives, standard gauge	"	—	679	748	942	1,146
Passenger locomotives, standard gauge	"	—	148	182	223	372
Tank locomotives (standard gauge and narrow gauge)	"	—	115	84	161	270
Electric locomotives, standard gauge	"	—	1	17	19	34
Electric locomotives for factory use	"	—	135	298	191	228
Freight cars, in terms of 2-axle cars [5])	Thousands	14.8	23.1	21.6	33.5	90.8
Passenger cars, standard gauge	Units	—	2,135	2,548	2,980	1,774

Table 1 (Continued)

Products	In terms of:	1913	1932	1933	1934	1935 [1]
A	B	1	2	3	4	5
Motor vehicles	Units	—	23,879	49,724	72,472	96,620
Including:						
Motor trucks	„	—	23,845	39,465	55,362	77,666
Automobiles	„	—	34	10,259	17,110	18,954
Tractors	„	—	50,640	78,138	94,452	113,566
Tractors	Thousands h. p. [6]	—	755.5	1,220.0	1,751.9	2,325.7
Plows, tractor-drawn (in conventional plow-unit expression)	Thousands of plow-units	—	231.2	262.5	278.2	294.3
Grain sowing machines, tractor-drawn	Units	—	19,187	11,868	12,098	17,715
Combined harvesters and threshers	„	—	10,006	8,578	8,239	20,169
Power shovels (excavators)	„	—	85	116	276	452
Overhead travelling cranes, electrical	„	—	460	518	312	354
Conveyors	„	—	3.071	2,331	2,444	—
Pumps, power and steam	„	—	34,684	28,734	39,843	—
Compressors	„	—	581	962	1,794	—
Bicycles	Thousands	—	128.4	132.4	274.5	322.1
Watches and clocks	„	—	3,585.1	4,122.0	4,387.4	4,514.7
Including:						
Watches	„	—	64.6	95.5	127.9	192.2
Photo cameras	„	—	30	115	169	151
Electric lamps	Millions	2.9	54.2	69.5	83.6	101.0
High voltage cables	Kilometers	—	—	8,068	9,391	11,694
Low voltage cables	„	—	—	10,990	11,563	15,102
Apatite rock	Thousands of tons	—	380	687	1,136	1,555
Phosphate meal	„	8	385	332	284	498
Phosphate rock	„	—	684	809	1,149	1,750
Sylvinite	„	—	79	303	1,002	1,319
Pyrites [7]	„	76	338	415	457	516
Salt	„	1,950	2,636	2,734	3,545	4.350
Sulphuric acid [8]	„	121	552	627	782	996
Superphosphate	„	63	616	690	842	1,168
Plastics	„	—	3.9	4.2	5.6	7,6
Iodine	Tons	—	58	67	90	—
Bromine	„	—	115	134	289	435

Bleaching powder	Thousands of tons	—	10.6	9.9	13.7	21.7
Varnishes	"	—	19.3	18.8	21.9	—
Automobile tires	Thousands	19	544	672	1,535	2,077
Automobile inner tubes	"	10	727	747	1,444	2,399
Rubber footwear	Millions of pairs	27.9	64.7	62.2	65.0	76.5
Glass ware	Thousands of tons	403	427	399	567	—
Including:						
Sheet glass	"	—	165	166	277	—
China ware	"	22.9 8)	47.7	47.6	47.7	—
Pottery	"	21.1 9)	29.2	24.9	25.4	—
Common brick	Millions	2,950	4,900	3,823	4,941	—
Silica and slag brick	"	—	533	460	597	—
Tile	Thousands	—	71	43	60	—
Roofing paper	Thousands of rolls	—	3,474	4,749	5,024	—
Rubberoid	"	—	397	566	726	1,143
Cement	Thousands of tons	1,520	3,481	2,710	3,533	4,465
Lime	"	—	2,650	1,966	2,636	—
Alabaster	"	—	475	434	627	—
Dinas brick	"	—	186	203	334	—
Lumber, felled	Millions of cubic meters	—	176.1	178.7	201.6	208.0
Building timber	"	—	103.5	98.9	108.2	117.0
Firewood	"	—	72.6	79.8	93.4	91.0
Lumber removed from forests	"	—	164.7	173.3	181.3	203.2
Building timber	"	—	99.4	98.0	99.7	112.9
Firewood	"	—	65.3	75.3	81.6	90.3
Sawn timber 10)	Thousands of cubic meters	11,875	24,427	27,334	30,579	34,000
Plywood	"	130	423	424	497	554
Matches	Thousands of boxes	3,757	5,642	6,876	9,114	10,854
Paper	Thousands of tons	197	479	506	566	641
Cardboard	"	20	73	79	90	106
Wood pulp	"	55	251	277	286	320
Cellulose	"	41	185	206	239	271
Cotton fiber	"	223 11)	390	379	420	439 12)
Cotton consumption in the textile industry	"	—	407	405	444	441
Cotton yarn	"	271	355	367	388	379
Unbleached cotton cloth	Millions of meters	—	2,690	2,701	2,673	2,574
Finished cotton cloth	"	—	2,417	2,422	2,438	2,390
Woolen yarn	Thousands of tons	46.5	71.0	67.5	61.0	65.5
Unbleached woolen cloth	Millions of meters	—	93.3	93.4	82.7	91.0
Finished woolen fabrics	"	—	88.7	86.1	77.9	83.5
Linen yarn	Thousands of tons	53.3	54.5	57.6	66.8	83.0
Linen cloth	Millions of sq m.	—	136	143	160	216

Table 1 (Continued)

Products	In terms of:	1913	1932	1933	1934	1935 1)
A	B	1	2	3	4	5
Raw silk	Tons	—	837	775	901	1,135
Reeled silk	"	—	545	618	713	—
Silk woven goods	Millions of meters	—	21	26	31	38
Hides and skins, large	Millions	—	17	12	10	—
Hides and skins, small	"	—	32	25	29	—
Boots and shoes 13)	Millions of pairs	8	85	80	76	86
Soap, hard (for household use)	Thousands of tons	95	261	177	309	349
Output of fisheries	Thousands of metric centners	—	13,354	13,030	15,470	15,500
Starch	Thousands of tons	—	50	78	102	125
Molasses	"	—	57	72	92	119
Sugar, granulated	Thousands of metric centners	9,966 14)	8,268	9 953	14,035	20,316
Sugar refined (loaf sugar)	"	8,123 14)	4,378	3,493	4,871	7,188
Confectionery	Thousands of tons	—	511	429	522	592
Canned goods	Thousands of conventional 400-gramm cans	—	906	900	1,122	1,183
Including:						
Hermetic cans	Thousands of conventional 400-gramm cans	—	389	383	403	490
Tobacco	Thousands of tons	11	50	48	56	59
Cigarettes	Billions	22	58	63	68	80

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1) Preliminary data. 2) Reduced to terms of coke of six per-cent moisture. 3) Exclusive of turbines produced prior to 1935 but fully equipped during that year. 4) Including factory locomotives and narrow-gauge locomotives. 5) Including factory and narrow-gauge railway cars. 6) Drawbar capacity (horse-power). 7) Exclusive of carbonaceous pyrites. 8) Reduced to terms of 100 per cent sulphuric acid. 9) Data for 1912 calendar year. 10) Prior to 1932 data for auxiliary sawmills at various branches of industrial enterprises are estimated. 11) Gross production of cotton in 1913 is reduced to terms of cotton fiber. Output of ginned cotton was somewhat less, as part of the raw cotton was utilized unginned. 12) According to preliminary estimates the output of ginned cotton for the operative year 1935-1936 (from harvest to harvest) will amount to 540 thousands of tons 13) Data for large-scale industry. 14) 1912-1913.

2. SUMMARY TABLES: By Months

Table 1

Output of Electric Energy at District Stations [1])

(In millions of kw-hours)

	1928	1929	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9
January	168.1	234.0	363.3	517.9	765.9	915 8	1,117.0	1,524.9	1,940.3
February	156.1	217.0	336.0	466.1	720.8	829.5	1,011.0	1,390.3	1,838.4
March	158.1	220.2	367.8	504.9	738.8	893.7	1,095.0	1,500.2	1,889.6
April	146.1	217.3	349.7	485.6	711.7	849.6	1,035.0	1,422.9	1,829.2
May	154.1	200.6	340.6	485.6	702.8	846.4	1,035.0	1,339.0	1,801.5
June	150.1	203.4	336.0	485.6	684.8	845.8	1,060.9	1,293.7	1,766.9
July	144.1	203.4	336.0	498.5	684.8	829.7	1,058.3	1,371.0	1,764.9
August	152.1	208.9	340.6	511.4	675.8	846.8	1,036.3	1,379.1	1,741.9
September	166.1	234.2	381.4	543.8	720.8	896.5	1,177.3	1,441.5	—
October	196.1	264.7	435.9	621.5	819.9	1,021.3	1,346.0	1,644.8	—
November	200.0	273.2	440.5	640.9	837.9	1,053.2	1,378.7	1,684.7	—
December	210.0	309.2	513.2	712.2	946.0	1,204.8	1,540.0	1,920.0	—

Note to Tables 1—8. Yearly totals in these tables differ at times from the totals in the preceding tables, as the monthly figures are based on current statistics which cover a different group of establishments than those covered in annual returns.

Table 2

Output of Coal [1]

(In thousands of tons)

	1928	1929	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9
January	3,232.5	3,490.8	4,361.3	4,541.5	5,940.6	5,590.7	7,524.1	8,220.5	10,785.2
February	3,118.3	3,341.9	4,256.6	3,927.8	5,592.6	5,309.3	7,033.3	7,797.5	10,337.2
March	3,267.2	3,612.0	4,787.0	4,325.5	5,814.3	6,020.4	7,442.2	8,634.2	10,731.6
April	2,525.9	3,478.8	4,411.3	4,486.6	5,535.2	5,942.1	7,493.7	8,524.9	10,309.9
May	2,735.5	2,810.5	3,991.4	4,359.6	5,143.5	5,855.6	7,156.4	8,180.5	9,577.6
June	2,679.8	3,164.2	3,935.5	4,485.3	5,151.2	6,076.6	7,515.4	8,446.4	9,598.2
July	2,706.7	3,274.1	3,443.7	4,424.0	4,863.3	6,234.1	7,636.9	8,742.5	9,598.8
August	2,737.2	3,232.6	3,018.5	4,405.7	4,541.0	6,292.9	7,627.8	8,710.6	10,043.0
September	2,736.6	3,231.8	2,909.8	4,548.0	4,610.8	6,465.2	7,490.7	8,587.4	—
October	3,304.3	3,849.6	4,084.6	5,301.4	5,146.3	6,944.8	8,093.3	9,722.0	—
November	3.197.0	3,756.4	4,404.1	5,114.9	4.815.5	6,456.7	7,762.8	9,562.5	—
December	3,557.0	4,239.8	4,788.5	5,733.1	5,710.0	7,466.7	8,790.6	11,176.4	—

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[1] Exclusive of Producers' Cooperatives.

Table 3

Output of Crude Petroleum [1]

(In thousands of tons)

	1928 [1]	1929 [1]	1930 [1]	1931 [1]	1932 [2]	1933 [2]	1934 [2]	1935 [2]	1936 [2]
A	1	2	3	4	5	6	7	8	9
January	853.8	1,085.3	1,257.4	1,690.4	1,937.5	1,537.6	2,018.1	2,035.1	2,431.2
February	808.3	897.7	1,138.4	1,561.4	1,798.0	1,512.0	1,881.9	1,937.8	2,315.8
March	922.1	991.5	1,359.3	1,810.7	2,036.7	1,770.1	2,196.5	2,160.3	2,470.5
April	933.5	991.5	1,461.3	1,774.5	1,932.0	1,764.0	2,119.7	2.165,8	2,369.0
May	1,036.0	1,205.9	1,546.3	1,828.4	1,974.7	1,940.6	2,147.7	2,335.0	2,512.7
June	1.001.8	1,165.7	1,495.2	1,859.4	1,917.0	1,863.0	2,089.7	2,186.0	2,439.2
July	1,024.6	1,272.8	1,597.2	2,001.8	1,912.7	1,773.2	2,155.9	2,256.0	2,476.2
August	1,013.2	1,286.3	1,631.2	2,013.1	1,878.6	2,008.8	2,155.8	2,284.0	2,445.4
September	1,047.3	1,232.7	1,648.2	1,945.2	1,722.0	2,136.0	2,113.0	2,264.0	—
October	1,098.7	1,273.0	1,724.3	1,987.2	1,773.2	2,194.8	2,211.2	2,429.0	—
November	1,071.9	1,256.0	1,729.5	1,986.5	1,638.0	2,028.0	2,200.0	2,311.0	—
December	1,098.8	1,323.9	1,787.0	1,869.1	1,639.9	1,881.7	2,229.0	2,413.0	—

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[1] Exclusive of natural gas
[2] Inclusive of natural gas.

Table 4

Output of Pig Iron

(In thousands of tons)

	1928	1929	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9
January	278.4	340.8	413.7	387.8	438.8	464.4	727.2	899.3	1,182.3
February	263.7	301.6	385.8	315.5	419.2	417.9	698.7	910.3	1,102.2
March	290.9	351.4	440.3	392.9	479.8	513.6	810.1	1,049.4	1,245.9
April	278.6	344.0	429.5	415.2	510.5	557.7	845.8	1,016.6	1,211.5
May	298.6	366.5	446.4	409.6	547.0	577.8	905.1	1,071.4	1,243.2
June	271.8	364.0	440.3	415.6	518.8	634.6	886.8	1,057.4	1,161.5
July	267.6	353.3	428.0	400.8	516.2	659.8	908.0	1,093.1	1,189.3
August	267.1	346.6	403.2	401.6	495.8	626.9	924.3	1,084.5	1,209.3
September	273.8	365.7	395.9	406.2	541.5	654.3	906.8	1,041.8	—
October	290.2	395.2	407.2	444.1	568.3	675.8	947.3	1,064.3	—
November	277.3	397.6	410.2	451.2	535.3	674.8	921.8	1,048.8	—
December	314.9	393.1	415.7	425.3	539.9	652.2	946.4	1,152.0	—

Table 5

Output of Steel Ingots and Castings

(In thousands of tons)

	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7
January	500.1	486.9	540.1	479.2	686.2	874.1	1,315.6
February	457.6	382.1	486.2	440.0	664.5	884.8	1,232.5
March	510.0	468.3	513.4	499.2	762.5	1,042.0	1,374 9
April	492.2	486.4	521.1	515.2	782.7	1,006.8	1,362.7
May	514.0	483.3	525.9	530.6	787.2	1,019.7	1,320.6
June	487.6	470.4	486.8	574.0	809.2	1,004.9	1,258.8
July	463.2	435.2	459.5	581.0	782.2	1,048.1	1,270.1
August	453.0	437.9	432.9	603.4	812.9	1,041.7	1,346.9
September	472.5	475.3	467.2	639.7	832.7	1,064.5	—
October	492.0	499.8	477.9	662.6	880.9	1,158.8	—
November	517.6	494.1	494.5	651.8	860.2	1,107.2	—
December	503.2	495.2	516.5	653.2	902.1	1,210.3	—

Table 6

Output of Rolled Steel [1]

(In thousands of tons)

	1930	1931	1932	1933	1934	1935	1936 [2]
A	1	2	3	4	5	6	7
January	392.9	336.9	420.3	356.3	467.8	604.7	1,061.0
February	374.2	266.2	356.0	328.6	475.2	621.2	966.1
March	407.0	361.8	403.1	381.6	569.1	734.0	1,039.3
April	383.6	374.3	394.5	407.5	553.8	720.5	1,061.9
May	388.3	349.4	373.0	396.3	539.6	681.4	973.4
June	383.6	345.2	334.4	406.6	555.4	716.4	998.8
July	369.6	320.2	313.0	410.3	524.5	731.2	925.4
August	355.5	316.0	287.3	388.0	549.3	747.7	976.5
September	407.0	341.0	317.3	422.2	596.4	822.2	—
October	402.3	395.2	351.6	471.4	630.7	859.0	—
November	397.6	370.2	347.3	429.7	599.4	809.8	—
December	416.4	382.6	390.2	479.6	664.3	942.9	—

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[1] Exclusive of pipes and forging-blanks.
[2] Inclusive of pipes and forging-blanks.

Table 7

Output of Tractors

(Units)

A	1928	1929	1930	1931	1932	1933	1934	1935	1936
	1	2	3	4	5	6	7	8	9
January	108	138	285	1,130	4,356	3,431	5.614	8,001	9,738
February	109	214	405	997	4,554	5,318	7,954	9.162	10,917
March	134	266	579	2,309	5,302	5,950	7,780	9,650	11,645
April	134	319	954	2,782	5,005	6,953	6,787	8,927	9,493
May	109	179	1.142	3,347	3,571	5,878	9,382	8,576	9,098
June	109	330	1,124	3,386	3,154	7,094	8,141	10,018	9,496
July	54	320	1,031	2,934	3,042	7,571	8,302	9,712	9,146
August	135	476	732	3,310	2,709	7,092	8,746	8.914	9,720
September	135	603	1,275	3,407	5,508	6,870	8,237	10.485	—
October	110	477	1,633	4,936	4,826	8,378	8,803	9,495	—
November	161	534	1,403	4,201	2,536	4,708	5,339	8,972	—
December	151	642	2,168	5,238	6,328	8,861	9,331	11,642	—

Output of Motor Vehicles [1]

(Units)

	1929	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8
January	85	232	296	926	3,203	4,951	6,733	4,140
February	90	246	288	1,094	2,933	4,877	6,710	6,939
March	117	267	260	1,549	3,805	6,254	7,306	8,802
April	160	285	560	1,807	3,722	5,906	7,401	11,475
May	119	254	394	1,311	3,521	5,919	6,904	10,531
June	136	369	534	1,290	3,816	6,304	8,129	11,362
July	147	287	311	1,913	4,557	4,497	8,339	9,279
August	116	467	113	2,202	4,644	6,236	7,272	12,136
September	256	412	70	2,614	4,954	6,778	10,197	—
October	125	577	175	2,965	5,291	5,793	8,987	—
November	191	480	343	2,848	4,370	7,330	9,093	—
December	224	350	661	3,399	4,861	7,621	9,621	—

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[1] Stock deliveries (exclusive of motor vehicles assembled from imported parts).

II. AGRICULTURE

1. Gross Production
2. Basic Means of Production
3. Capital Investments
4. Machinery and Mechanical Equipment in Agriculture
5. State Farms
6. Machine and Tractor Stations (MTS)
7. Collective Farms
8. Field Husbandry
9. Livestock Breeding

1. GROSS PRODUCTION

Table 1

Gross Production of Agriculture in the U. S. S. R.

Branches of Agriculture and Agricultural Products: By Groups	Value of gross production in prices of 1926-27 (in millions of rubles)					Per cent of preceding year					Per cent of total value				
	1929	1932	1933	1934	1935 [1]	1932	1933	1934	1935	1935 in per cent of 1932	1929	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. Total crops	9,058.9	9,779.2	11,054.2	11,307.7	12,194.1	99.3	113.0	102.3	107.8	124.7	61.4	74.8	78.9	77.5	75.7
Including gross yield of:															
1. Cereals	3,347.5	3,460.9	4,490.0	4,546.8	4,676.7	101.4	129.7	101.3	102.9	135.1	22.7	26.5	32.0	31.2	29.1
2. Industrial crops	876.1	1,091.5	1,147.3	1,088.2	1,362.4	87.9	105.1	94.8	125.2	124.8	5.9	8.3	8.2	7.5	8.5
3. Potatoes and vegetables	1,866.1	2,292.2	2,569.0	2,470.9	2,671.6	100.5	112.1	96.2	108.1	116.6	12.7	17.5	18.3	16.9	16.6
4. Fruit, small fruits and grapes	391.9	386.8	372.0	432.4	484.2	93.5	96.2	116.2	112.0	125.2	2.7	3.0	2.7	3.0	3.0
B. Total livestock products	5,685.7	3,292.6	2,962.4	3,283.3	3,903.1	80.4	90.0	110.8	118.9	118.5	38.6	25.2	21.1	22.5	24.3
Including gross yield of:															
1. Unskimmed milk	2,050.2	1,414.4	1,317.9	1,431.1	1,517.7	87.9	93.2	108.6	106.1	107.3	13.9	10.8	9.4	9.8	9.4
2. Meat and fats	2,375.8	1,193.1	963.0	886.7	1,024.4	75.4	80.8	89.8	118.3	85.9	16.1	9.1	6.9	5.9	6.4
3. Raw hides and skins	457.3	253.2	255.6	229.2	235.1	71.4	100.9	89.7	102.6	92.9	3.1	1.9	1.8	1.6	1.5
4. Sheep's wool and camel's hair	184.4	69.7	64.5	67.9	82.2	70.8	92.5	105.3	121.1	117.9	1.3	0.5	0.5	0.5	0.5
C. Total crops and livestock products															
1. Including increment of unfinished production in field husbandry (crops not harvested, etc.) and increment of livestock carried over from previous year	14,744.6	13,971.8	14,016.6	14,591.0	16,097.2	93.7	107.2	104.1	110.3	123.1	100.0	100.0	100.0	100.0	100.0
2. Excluding increment of unfinished production in field husbandry (crops not harvested, etc.) and increment of livestock carried over from previous year	14,339.5	12,715.0	13,942.4	13,798.2	14,996.2	91.9	109.7	99.0	108.7	118.0	97.3	97.3	99.5	94.6	93.2

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[1] Premilinary returns.

2. BASIC MEANS OF PRODUCTION

Table 1

Basic Means of Production of Socialized Agricultural Enterprises

(As at beginning of year)

Description	Value, inclusive of depreciation, in fixed prices of 1926-27 (in millions of rubles)					Per cent of total value				
	1928	1932	1934	1935	1936	1928	1932	1934	1935	1936
A	1	2	3	4	5	6	7	8	9	10
1. Non-residence farm buildings	116.4	1,882.4	3,131,0	3,761.9	4,341.8	9.0	18.6	24.8	26.2	26.4
2. Land betterment and irrigation	827.6	1,372.0	1,527.7	1.552.8	1,658.9	64.2	13.6	12.1	10.8	10.1
3. Inventory	169.5	2.843.1	4,029.1	4,764.1	5,609.7	13.2	28.1	31.9	33.1	34.1
Including:										
a) Agricultural machinery and implements	102.6	1,503.8	1,976.1	2,121,2	2,278.0	8.0	14.9	15.6	14.7	13.9
b) Tractors	31.9	309.2	556.8	875.6	1,287.8	2.5	3.1	4.4	6.1	7.8
c) Vehicles	17.1	848.7	1,199.0	1,365.5	1,574.2	1.3	8.4	9.5	9.5	9.6
Of which: Motor vehicles	—	26.2	252.6	358.4	542.9	—	0.3	2.0	2.5	3.3
4. Cattle [1]), poultry and apiaries	81.6	2,803.6	2,557.1	2,722.7	3,005.2	6.3	27.7	20.2	18.9	18.3
Of which: Draft cattle	30.4	1,689.3	1,493.8	1,597.3	1,644.0	2.4	16.7	11.8	10.1	10.0
5. Buildings, equipment and inventory of industrial enterprises	81.5	524.4	942.8	1,022.9	1,196.3	6.3	5.2	7.5	7.1	7.3
6. All basic means of production [2])	1,289.3	10,124.9	12,645.7	14,391.3	16,434.0	100.0	100.0	100.0	100.0	100.0
7. Total fixed assets [3])	1,367.4	11,472.9	14,324.3	16,298.9	18,557.1	—	—	—	—	—

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[1]) Inclusive of young stock.

[2]) Total also includes non-itemized basic means of production as of January 1: 1928—12.7 millions of rubles; 1929—92.3 millions of rubles; 1930—190.2 millions of rubles; 1931—424.8 millions of rubles; 1932—699.4 millions of rubles; 1933—461.0 millions of rubles; 1934—458.0 millions of rubles; 1935—566.9 millions of rubles.

[3]) Inclusive of dwelling houses and other assets of non-industrial purport.

Table 2

Basic Means of Production of State Farms and Cooperative Farms[1]

(As at beginning of year)

Description	Value, inclusive of depreciation, in fixed prices of 1926-27 (in millions of rubles)					Per cent of total value				
	1928	1932	1934	1935	1936	1928	1932	1934	1935	1936
A	1	2	3	4	5	6	7	8	9	10
1. Non-residence farm buildings	68.1	468.4	1,260.9	1,484.2	1,645.8	28.9	19.9	35.0	35.9	35.8
2. Inventory	64.6	765.5	1,204.1	1,373.7	1,560.0	27.4	32.6	33.4	33.2	33.9
Including:										
a) Agricultural machinery and implements	31.3	330.1	463.8	501.2	534.7	13.3	14.0	12.9	12.1	11.6
b) Tractors	10.0	182.1	283.5	397.4	501.7	4.2	7.7	7.9	9.6	10.9
c) Vehicles	14.2	135.0	294.5	320.6	358.8	6.0	5.7	8.2	7.7	7.8
Of which: Motor vehicles	...	22.3	133.9	169.7	206.8	...	0.9	3.7	4.1	4.5
3. Cattle, poultry and apiaries	59.3	546.5	707.6	706.9	768.9	25.1	23.2	19.6	17.1	16.7
Of which: Draft cattle	21.4	141.2	185.2	188.8	191.6	9.1	6.0	5.1	4.6	4.2
4. Buildings, equipment and inventory of industrial enterprises	42.8	163.9	299.7	375.9	436.0	18.2	7.0	8.3	9.1	9.5
5. All basic means of production[2]	235.8	2,352.1	3,606.8	4,139.4	4,600.6	100.0	100.0	100.0	100.0	100.0
6. Total fixed assets[3]	300.0	2,891.7	4,475.5	5,167.4	5,813.3	—	—	—	—	—
Including:										
Fixed assets of Cooperative Farms	—	241.0	417.7	336.2	367.1	—	—	—	—	—

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[1] Inclusive of farms belonging to Workers' Supply Departments in all industrial enterprises. By Workers' Supply Departments are understood special organizations connected with plants, factories, etc., and entrusted with the procurement and distribution of various commodities to the workers of the respective plant or enterprise.

[2] Exclusive of land betterment and irrigation schemes and perennial planting. Total includes non-itemized basic means of production, as of January 1: 1928—1.0 millions of rubles; 1929—4.7 millions of rubles; 1930—50.7 millions of rubles; 1931—184.4 millions of rubles; 1932—407.8 millions of rubles; 1933—163.8 millions of rubles; 1934—134.5 millions of rubles; 1935—198.7 millions of rubles.

[3] Inclusive of dwelling houses and other assets of non-industrial purport.

Table 3

Basic Means of Production of Machine-Tractor Stations

(As at beginning of year)

Description	Value, inclusive of depreciation, in fixed prices of 1926-27 (in millions of rubles)					Per cent of total value				
	1930	1932	1934	1935	1936	1930	1932	1934	1935	1936
A	1	2	3	4	5	6	7	8	9	10
1. Non-residence farm buildings	0.3	25.8	92.0	151.5	203.6	2.0	6.7	7.7	9.3	9.1
2. Inventory	13.9	323.4	871.6	1,250.9	1,763.6	91.5	84.3	72.5	77.1	79.1
Including:										
a) Agricultural machinery and implements	2.9	174.2	427.3	525.0	626.5	19.1	45.4	35.6	32.3	28.1
b) Tractors	10.6	115.7	266.1	467.3	773.5	69.7	30.1	22.1	28.8	34.7
c) Vehicles	0.4	15.1	125.4	178.8	259.8	2.6	3.9	10.4	11.0	11.6
Of which: Motor vehicles	—	3.4	112.9	160.0	236.0	...	0.9	9.4	9.9	10.6
3. Cattle, poultry and apiaries	0.4	3.3	16.5	22.9	25.3	2.6	0.9	1.4	1.4	1.1
Of which: Draft cattle	0.4	3.0	12.4	15.8	18.4	2.6	0.8	1.0	1.0	0.8
4. Buildings, equipment and inventory of repair shops, and flax and hemp plants[1])	0.6	31.3	221.6	198.5[2])	239.6	3.9	8.1	18.4	12.2	10.7
Including: Repair shops	0.6	20.6	114.9	198.5	239.6	3.9	5.4	9.6	12.2	10.7
5. All basic means of production [2])	15.2	383.8	1,201.7	1,623.8	2,232.1	100.0	100.0	100.0	100.0	100.0
6. Total fixed assets [3])	15.6	419.2	1,280.9	1,727.4	2,353.3	—	—	—	—	—

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[1]) Exclusive of basic means of production of flax and hemp plants transferred in 1934 to the People's Commissariat of Light Industry.
[2]) Exclusive of land betterment and irrigation schemes and perennial planting.
[3]) Inclusive of dwelling houses and other assets of non-industrial purport.

Table 4

Basic Means of Production of Collective Farms

(As at beginning of year)

Description	Value, inclusive of depreciation, as of January 1, in fixed prices of 1926-27 (in millions of rubles)					Per cent of total value				
	1928	1932	1934	1935	1936	1928	1932	1934	1935	1936
A	1	2	3	4	5	6	7	8	9	10
1. Non-residence farm buildings	12.4	1.281.5	1.667.8	1,987.6	2.308.1	19.0	22.5	28.0	30.0	31.2
2. Inventory	30.1	1,720.3	1,903.3	2,008.4	2,132.9	46.0	30.1	32.0	30.3	28.8
Including:										
a) Agricultural machinery and implements	12.2	976.3	1.071.8	1,089.6	1,109.7	18.7	17.1	18.0	16.5	15.0
b) Tractors	14.5	11.4	7.0	5.8	4.7	22.2	0.2	0.1	0.1	0.1
c) Vehicles	2.9	692.2	761.7	831.7	915.0	4.4	12.1	12.8	12.6	12.4
Of which: Motor vehicles	—	—	2.0	19.1	84.5	—	—	0.0	0.3	1.1
3. Cattle [1], poultry, apiaries	16.9	2,248.8	1,826.1	1,965.5	2.180.0	25.8	39.4	30.7	29.7	29.5
Of which: Draft cattle	8.0	1,543.1	1,292.5	1,378.4	1,419.1	12.2	27.0	21.7	20.8	19.2
4. Buildings, equipment and inventory of industrial enterprises	6.0	290.0	346.5	397.3	455.8	9.2	5.1	5.8	6.0	6.2
5. All basic means of production [2]	65.4	5,705.2	5,950.3	6,620.8	7,392.0	100.0	100.0	100.0	100.0	100.0
6. Total fixed assets [3]	79.3	6,477.7	6,653.4	7,284.3	8,037.5	—	—	—	—	—

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[1] Inclusive of young stock.

[2] Exclusive of land betterment and irrigation schemes and perennial planting. Total also includes non-itemized basic means of production, as of January 1: 1929—14.1 millions of rubles; 1930—36.9 millions of rubles; 1931—105.6 millions of rubles; 1932—164.6 millions of rubles; 1933—185.3 millions of rubles; 1934—206.6 millions of rubles; 1935—262.0 millions of rubles.

[3] Inclusive of dwelling houses and other assets of non-industrial purport.

3. CAPITAL INVESTMENTS

Table 1

Capital Investments of Socialist Agricultural Enterprises

Description of Investments	Capital investments at prices for respective year (in millions of rubles)				Per cent of total capital investments			
	1928	1932	1934	1935	1928	1932	1934	1935
A	1	2	3	4	5	6	7	8
1. Non-residence farm buildings	39.5	932.7	1.011.8	856.3	9.8	21.1	17.4	14.6
2. Inventory	66.4	967.8	1,669.2	2,160.8	16.5	21.9	28.6	36.7
Including:								
a) Agricultural machinery and implements	45.2	447.1	455.9	531.7	11.2	10.1	7.8	9.0
b) Tractors	9.5	208.2	674.4	1,046.2	2.4	4.7	11.6	17.7
c) Vehicles	7.4	237.9	385.7	433.2	1.8	5.4	6.6	7.4
Of which: Motor vehicles	—	91.3	181.1	272.5	—	2.1	3.1	4.6
3. Cattle, poultry, apiaries	50.0	1,075.9	2,020.6	1,996.8	12.4	24.4	34.7	34.0
4. Land betterment and irrigation	70.9	230.9	165.0	161.0	17.6	5.2	2.8	2.7
5. Buildings, equipment and inventory of industrial enterprises	25.2	338.6	309.9	233.1	6.3	7.7	5.3	4.0
6. Total investments in basic means of production[1])	336.8	3,861.6	5,357.0	5,571,2	83.7	87.5	91.9	94.7
7. Total capital invested in fixed assets	357.1	4.217.0	5,775.1	5,881.3	88.7	95.6	99.1	100.0
8. Total capital investments [2])	402.2	4,411.1	5,828.3	5,881.3	100.0	100.0	100.0	100.0

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[1]) Total capital investments in basic means of production also include non-itemized investments: 1928—84.8 millions of rubles; 1929—111.0 millions of rubles; 1930 — 259.2 millions of rubles; 1931 — 331.9 millions of rubles; 1932 — 315.7 millions of rubles; 1933 — 119.0 millions of rubles; 1934 — 180.5 millions of rubles.

[2]) Including investments other than inventory.

Table 2

Capital Investments of State Farms and Cooperative Farms [1]

Description of Investments	Capital investments at prices for respective year (in millions of rubles)				Per cent of total capital investments			
	1928	1932	1934	1935	1928	1932	1934	1935
A	1	2	3	4	5	6	7	8
1. Non-residence farm buildings	22.5	561.2	355.3	243.5	20.6	25.6	15.0	12.6
2. Inventory	20.0	380.5	556.5	521.6	18.3	17.3	23.5	27.0
Including:								
a) Agricultural machinery and implements	9.6	154.6	140.0	117.1	8.8	7.1	5.9	6.1
b) Tractors	3.6	80.0	245.3	260.5	3.3	3.7	10.4	13.5
c) Vehicles	4.2	101.0	113.8	106.2	3.9	4.6	4.8	5.5
Of which: Motor vehicles	—	45.2	74.7	79.3	—	2.1	3.2	4.1
3. Cattle, poultry and apiaries	30.8	374.4	844.9	762.4	28.4	17.1	35.7	39.5
4. Land betterment and irrigation	2.0	51.8	51.3	34.3	1.8	2.4	2.2	1.8
5. Buildings, equipment and inventory of industrial enterprises	11.9	116.3	119.3	81.4	10.9	5.3	5.0	4.2
6. Total investments in basic means of production [2]	90.9	1,730.1	2,015.2	1,705.7	83.4	78.9	85.1	88.3
7. Total capital invested in fixed assets	109.0	2,040.1	2,354.8	1,932.4	100.0	93.1	99.5	100.0
8. Total capital investments [3]	109.0	2,191.7	2,367.7	1,932.4	100.0	100.0	100.0	100.0
9. Of which: Total capital investments of Cooperative Farms	—	264.2	153.6	77.8	—	12.1	6.5	4.0

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[1] Data on capital investments in 1932-34 include capital investments of farms belonging to Workers' Supply Departments.

[2] Total capital investments in basic means of production include also non-itemized investments: 1928—3.7 millions of rubles; 1929—47.5 millions of rubles; 1930—143.6 millions of rubles; 1931—242.4 millions of rubles; 1932—245.9 millions of rubles; 1933—43.8 millions of rubles; 1934—87.9 millions of rubles.

[3] Including investments other than inventory.

Table

Capital Investments of Machine-Tractor Stations 1)

Description of Investments	Capital investments at prices for respective year (in millions of rubles)				Per cent of total capital investments			
	1929	1932	1934	1935	1929	1932	1934	1935
A	1	2	3	4	5	6	7	8
1. Non-residence farm buildings	0.3	56.0	104.2	41.0	3.0	9.5	9.7	3.1
2. Inventory	8.5	340.2	752.0	1,176.0	84.1	57.7	70.0	90.1
Including:								
a) Agricultural machinery and implements	2.1	144.5	184.3	217.3	20.8	24.5	17.2	16.6
b) Tractors	6.0	126.0	428.0	779.2	59.3	21.4	39.8	59.7
c) Vehicles	0.4	54.4	95.8	128.1	4.0	9.2	8.9	9.8
Of which: Motor vehicles	—	44.7	86.3	118.6	. . .	7.6	8.0	9.1
3. Cattle, poultry, apiaries	0.3	7.7	31.2	23.4	3.0	1.3	2.9	1.8
4. Land betterment and irrigation	—	5.1	3.3	1.7	—	0.9	0.3	0.1
5. Buildings, equipment and inventory of repair shops and flax and hemp plants	0.6	159.1	103.8	41.3	5.9	27.0	9.7	3.2
Including: Repair shops	0.6	85.1	103.8	41.3	5.9	14.4	9.7	3.2
6. Total investments in basic means of production	9.7	568.1	995.0 1)	1,283.6 1)	96.0	96.4	92.6	98.3
7. Total capital invested in fixed assets	10.1	589.3	1,049.3	1,305.5	100.0	100.0	97.7	100.0
8. Total capital investments	10.1	589.3	1,074.5	1,308.5	100.0	100.0	100.0	100.0

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1) Inclusive of non-itemized investments (0.5 millions of rubles).

Table 4

Capital Investments of Collective Farms

Description of Investments	Capital investments at prices for respective year (in millions of rubles)				Per cent of total capital investments			
	1928	1932	1934	1935	1928	1932	1934	1935
A	1	2	3	4	5	6	7	8
1. Non-residence farm buildings	3.9	300.0	530.1	533.0	4.8	22.1	23.8	21.6
2. Inventory	26.4	238.0	334.3	416.8	32.5	17.5	15.0	16.9
Including:								
a) Agricultural machinery and implements	20.8	148.0	134.6	195.0	25.6	10.9	6.1	7.9
b) Tractors	2.6	1.8	0.8	0.8	3.2	0.1	0.0	0.0
c) Vehicles	2.7	76.8	168.9	186.0	3.3	5.7	7.6	7.6
Of which: Motor vehicles	—	—	17.5	66.3	—	—	0.8	2.7
3. Cattle, poultry, apiaries	18.9	691.6	1,121.4	1,247.4	23.3	50.9	50.4	50.7
4. Land betterment and irrigation	3.2	14.0	25.0	28.0	4.0	1.0	1.1	1.1
5. Buildings, equipment and inventory of industrial enterprises	0.8	45.8	84.1	92.0	1.0	3.4	3.8	3.7
6. Total investments in basic means of production [1])	68.5	1,345.4	2,186.4	2,417.2	84.4	99.1	98.2	98.2
7. Total capital invested in fixed assets	70.7	1,358.3	2,226.4	2,462.2	87.1	100.0	100.0	100.0
8. Total capital investments [2])	81.2	1,358.3	2,226.4	2,462.2	100.0	100.0	100.0	100.0

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[1]) Total capital investments in basic means of production include non-itemized investments: 1928—15.3 millions of rubles; 1929 -26.3 millions of rubles. 1930 — 61.4 millions of rubles; 1931 — 57.7 millions of rubles; 1932 — 56.0 millions of rubles; 1933—61.0 millions of rubles; 1934—91.5 millions of rubles;

[2]) Including investments other than inventory.

4. MACHINERY AND MECHANICAL EQUIPMENT IN AGRICULTURE

Table 1

Growth in Number and Aggregate Horse-Power of Tractors in Agriculture

(Inclusive of depreciation)

	Oct. 1, 1924	Oct. 1, 1926	Oct. 1, .1927	Oct. 1, 1928	Oct. 1, 1929	Oct. 1, 1930	Jan. 1, 1931	Jan. 1, 1932	Jan. 1, 1933	Jan. 1, 1934	Jan. 1, 1935	Jan. 1, 1936[1]
A	1	2	3	4	5	6	7	8	9	10	11	12
Total number of tractors (units)	2,560	19,541	24.504	26,733	34,943	66,332	72,078	125,344	148,480	210,900	276,427	380,019
Including:												
State Farm Sector	—	—	4,651	6,719	9,678	24,953	27,685	51,535	63,957	83,160	95,535	112,602
Machine-Tractor Stations . .	—	—	—	—	2,387	20,801	31,174	63,274	74,761	123,156	177,305	263,830
Aggregate horse-power of tractors (thousands h. p.) .	25.6	199.7	254.7	278.1	391.4	926.0	1,003 5	1,850.0	2,225.0	3,209.2	4,462.8	6,527.0
Including:												
State Farm Sector	—	—	56.1	77.6	123.4	445.5	483.1	892.0	1,043.0	1,401.7	1,669.5	2,041.3
Machine-Tractor Stations . .	—	—	—	—	23.9	257.1	372.5	848.0	1,077.0	1,758.1	2,753.9	4,446.3

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[1] Preliminary returns. Inclusive of tractors scrapped in 1935.

Table 2

Number and Capacity of Motor Trucks in Agriculture

(As at January 1 of respective year)

Agricultural Sectors	Number of motor trucks (units)			Capacity (in tons)		
	1934	1935	1936	1934	1935	1936
A	1	2	3	4	5	6
Total	**26,629**	**40,338**	**69,658**	**53,181**	**78,088**	**133,470**
State Farms and Cooperative Farms1)	14,033	17,099	23,553	28,204	35,374	51,261
Machine-Tractor Stations	12,345	19,517	29,664	24,601	37,493	57,509
Collective Farms	251	3,722	16,441	376	5,221	24,700

Table 3

Mechanical Equipment of Machine-Tractor Stations

(As at end of respective year)

	In terms of:	1930	1931	1932	1933	1934	1935 2)
A	B	1	2	3	4	5	6
Combines	Thous. of units	7 units	0.1	2.2	10.4	15.2	29.9
Prime movers and locomobiles	"	0.1	4.9	6.2	29.1 3)	—	—
Motor trucks	"	0.2	1.0	6.0	12.2	19.5	29.7
Passenger cars	Units	17	191	245	2,434	4,641	5,594

Table 4

Mechanical Equipment of State Farms Controlled by he People's Commissariat of State Farms

(As at end of respective year)

Description	In terms of:	1930	1931	1932	1933	1934	1935 2)
A	B	1	2	3	4	5	6
Combines	Thous. units	1.7	6.3	11.9	13.4	15.4	19,5
Prime movers and locomobiles	"	0.3	0.7	1.2	3.1	no data	no data
Motor trucks	"	2.1	3.8	6.2	10.3 3)	11.3	13.4
Passenger cars	Units	118	385	625	1,793	2,792	3,355

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1) Inclusive of agricultural enterprises belonging to Workers' Supply Departments, as well as other special agricultural enterprises, except for the year 1936.

2) Preliminary returns, exclusive of depreciation.

3) The number of prime movers and locomobiles is exclusive of the Far Eastern Territory and Yakut A.S.S.R.

Table 5

Tractors Supplied to Agricultural Sector

Year of Delivery	Total		Made in the U.S.S.R.		Imported		Per cent of Soviet-made tractors	
	Number of tractors	H. P.	Number of tractors	H. P.	Number of tractors	H. P.	According to number	According to H. P.
A	1	2	3	4	5	6	7	8
1924-25	6,665	68,570	457	4,570	6,208	64,000	6.9	6.7
1925-26	13,100	137,320	732	7,320	12,368	130,000	5.6	5.3
1926-27	5,680	58,600	660	6,600	5,020	52,000	11.6	11.3
1927-28	3,334	34,500	850	8,500	2,484	26,000	25.5	24.6
1928-29	9,466	126,045	2,800	29,540	6,666	96,505	29.6	23.4
1929-30	33,067	548,900	10,050	103,000	23,017	445,900	30.4	18.8
Special quarter of 1930	6,175	86,020	4,058	43,705	2,117	42,315	65.7	50.8
1931	59,130	964,356	31,283	392,560	27,847	571.796	52.9	40.7
1932	46,086	678,885	46,086	678,885	—	—	100.0	100.0
1933	68.738	1,058,340	68,738	1,058,340	—	—	100.0	100.0
1934	87,275	1,545,010	87,275	1,545,010	—	—	100.0	100.0
1935	103,592	2,064,159	103,592	2,064,159	—	—	100.0	100.0

Table 1

State Farm Development[1]

Indices	Absolute figures					Per cent of preceding year				
	1928	1932	1933	1934	1935 [2]	1932	1933	1934	1935[2]	1935 in per cent of 1928
A	1	2	3	4	5	6	7	8	9	10
1. Sown area (in thous. of hectares)	1,735	13,448	14,139	15,110	16,193	123	105	107	107	933
2. Number of tractors (units) [3]	4,651	51,535	63,957	83,160	95,535	186	124	130	115	2,054
3. Aggregate horse-power of tractors (thous. h. p.)[3]	56.1	892.0	1,043.0	1,401.7	1,669.5	185	117	134	119	2 976
4. Cattle, total (thous. of head)[4]	180	3,526	4,109	5,030	4,992	140	117	122	99	2,773
5. Including cows (thous. of head) [4]	60	1,716	1,850	2,035	1,885	142	108	110	93	3,142
6. Hogs, of all ages (thous. of head) [4]	59	1,928	2,964	4,996	4,886	170	154	169	97	8,248
7. Sheep and goats (thous. of head) [4]	747	7,221	8,158	9,178	9,972	149	113	113	109	1,335
8. Basic means of production (in millions of rubles) [5]	235.8	2,352.1	3,021.9	3,606.8	4,139.4	204	129	119	115	1,756
9. Fixed capital, including dwelling houses (in millions of rubles) [5]	300.0	2,891.7	3,767.1	4,475.5	5,167.4	199	130	119	116	1,723
10. Capital investments (in millions of rubles)	109.0	2,191.7	1,832.4	2,367.7	1,932.4	107	84	129	82	1,770
11. Average annual number of workers (in thousands)	316.8	1,891.5	2,070.2	2,305.1	2,178.7	144	109	111	95	688

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[1] Including farms belonging to Cooperative Farms, Kitchen Factories and Workers' Supply Departments.
[2] Preliminary data.
[3] As at beginning of year.
[4] According to data of tax authorities, as at July 1 of respective year.
[5] As at beginning of respective year, in fixed prices of 1926-27.

Table 2

Number of State Farms and Agricultural Enterprises of Workers' Supply Departments

(As of June, 1928 and as of January 1, 1935)

Republics	Year	Number of State Farms and agricultural enterprises of Workers' Supply Departments			Share of given Republic in:			
		State Farms	Farms belonging to Workers' Supply Departments	Total	Total area sown	Total number of domestic animals		
						Cattle	Hogs	Sheep and goats
A	B	1	2	3	4	5	6	7
U. S. S. R.	1928	1,407	1,718	3,125	100.0	100.0	100.0	100.0
	1934	4,118	4,864 [1]	8,982 [1]	100.0	100.0	100.0	100.0
R. S. F. S. R.	1928	829	1,092	1,921	57.0	58.9	55.6	91.8
	1934	2,728	2,628	5,356	72.9	81.4	68.3	75.3
Ukrainian S. S. R.	1928	359	495	854	39.6	32.0	39.7	7.0
	1934	776	771	1,547	22.5	14.0	25.3	7.0
White Russian S. S. R.	1928	158	57	215	2.5	7.5	4.0	0.1
	1934	275	124	399	1.6	1.8	4.0	0.2
Transcaucasian S. F. S. R.	1928	45	39	84	0.4	1.3	0.5	0.6
	1934	204	60	264	1.0	1.6	1.6	4.0
Uzbek S. S. R.	1928	14	33	47	0.4	0.3 [2]	0.2 [2]	0.5
	1934	81	53	134	1.6	0.9	0.5	7.5
Turkmenian S. S. R.	1928	2	2	4	0.1	[2]	[2]	[2]
	1934	30	—	30	0.2	0.2	0.2	4.6
Tadjik S. S. R.	1928	—	—	—	---	[2]	[2]	[2]
	1934	24	11	35	0.2	0.1	0.1	1.4

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[1] Inclusive of 1,217 agricultural enterprises not listed under the respective Republics.

[2] Figures for the Turkmenian S.S.R. and Tadjik S.S.R. are included with Uzbek S.S.R.

6. MACHINE AND TRACTOR STATIONS

Table 1

Summary of the Development of Machine-Tractor Stations

(As at June 1 of respective year)

Indices	Absolute figures					Per cent of preceding year			
	1930	1932	1933	1934	1935	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9
Total number of Machine-Tractor Stations (M.T S.)	158[1]	2,115	2,660	3,326	4,128	172.2	125.8	125.0	124.1
Including M.T.S. serving:									
a) Grain farms	139	1,105	1,462	1,855	2,036	160.6	132.3	126.9	109.7
b) Cotton farms	17	237	248	376	452	154.9	104.6	151.6	120.2
c) Flax and hemp farms	—	265	293	312	438	193.4	110.6	106.5	140.4
d) Sugar beet farms	2	227	320	350	550	147.4	141.0	109.4	157.1
e) Truck farms and potato farms	—	218	312	404	325	262.7	143.1	129.5	80.4
f) Other farms[2]	—	63	25	29	327	484.6	39.7	116.0	1,127.6
Number of Collective Farms served by Machine-Tractor Stations (in thousands)	11.6[3]	71.8	92.5	106.7	125.4	138.9	128.8	115.4	117.5
Per cent of total number of Collective Farms	13.6	34.0	41.2	45.8	51.1	—	—	—	111.6
Number of homesteads on Collective Farms served by Machine-Tractor Stations, in per cent of total number of homesteads on Collective Farms	24.5	45.8	53.3	58.4	no data	—	—	—	—
Total area sown by Collective Farms served by Machine-Tractor Stations (in millions of hectares)	10.4[3]	45.1	54.9	63.0	75.6	154.1	121.7	114.8	120.0
Per cent of total area sown by Collective Farms	27.4	49.3	58.7	63.9	72.4	—	—	—	113.3
Number of tractors at Machine-Tractor Stations (in units)	7,102	69,364	96,791	146,732	202,985	138.4	139.5	151.6	138.3
Aggregate horse-power of tractor fleets (in thousands of h.p.)	86.8	931.2	1,354.1	2,171.0	3,312.8	136.6	145.5	160.3	152.6

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[1] In addition to 158 Machine-Tractor Stations within the "Tractor Center" system in 1930, there were also 479 Cooperative Machine-Tractor Stations

[2] The figures for "other M.T.S." for 1931 and 1932 comprise special Machine-Tractor Stations serving farms for the production of special crops; figures for 1933 include 25 M.T.S. of the Chief Administration of Hay-harvesting M.T S.

[3] These data include Collective Farms served by Cooperative Machine-Tractor Stations.

Table 2

Geographical Distribution of Machine-Tractor Stations and Number of Tractors

(As at June 1 of respective year)

Republics, Regions and Territories	Number of Machine-Tractor Stations			Number of tractors			Aggregate horse-power of tractors (in thous.h.p.)		
	1933	1934	1935	1933	1934	1935	1933	1934	1935
A	1	2	3	4	5	6	7	8	9
U. S. S. R.	**2,660**	**3,326**	**4,128**	**96,791**	**146,732**	**202,985**	**1,354.4**	**2,171.0**	**3,312.8**
I. R. S. F. S. R.	1,813	2,252	2,895	63,810	96,990	139,420	920.5	1,471.2	2,343.5
Northern Territory . . .	7	12	21	175	246	595	2.4	3.5	10.2
Karelian A.S.S.R. . . .	5	7	8	78	113	139	1.2	1.7	2.4
Leningrad Region . . .	33	46	66	897	1,127	1,398	10.6	15.0	21.8
Kalinin Region	36	44	57	874	1,030	1,476	10.6	13 9	23.5
Western Region	40	47	60	891	1,064	1,295	10 2	13.4	19 9
Moscow Region	45	87	127	1,305	2,180	3,731	15.5	30.4	48.7
Ivanovo Region	36	45	53	828	1,080	1,389	9 9	13.7	20.3
Gorky Territory	22	32	40	650	849	1,307	7.6	11.0	20.1
Kirov Territory	25	37	62	699	1,093	2,076	8.5	14.9	32.6
Tatar A.S.S.R.	45	51	58	1,064	1,367	1,886	16.3	20.7	28.4
Kuibyshev Territory . .	123	141	172	3,758	5,617	8,404	53.8	86.7	141.9
Saratov Territory . . .	128	151	186	5,343	8,580	12,291	77.1	135.2	208.9
Stalingrad Territory . .	68	87	128	3,192	4.624	8.586	48 8	76.0	146.2
Voronezh Region . . .	125	143	175	5,238	6,741	9,191	68.5	89.5	132.1
Kursk Region	91	106	121	2,481	3,858	5,857	31.8	56.0	91.1
Azov-Black Sea Territory	213	239	281	8.256	12,723	15,423	123.2	193.4	253.7
Northern Caucasus Territory	94	108	136	3,243	5.813	6,577	45.9	87.1	112.9
Crimean A.S.S.R. . . .	24	31	39	1,186	1,448	1,466	16.4	21.3	22.6
Bashkir A.S.S.R.	49	53	68	1,109	1,889	2,620	17.0	28.9	45.3
Orenburg Region' . . .	70	83	104	2,860	4,158	6.301	45.5	66.2	116.2
Sverdlovsk Region . .	45	57	84	1,152	2,325	2,876	15.3	32.8	46.1
Cheliabinsk Region . .	71	97	125	3,025	5,123	7,234	47.8	86.2	132.8
Kazakhstan A.S.S.R. . .	89	132	220	2,876	6,223	11,126	43.7	98.5	191.6
Kara-Kalpak A.S.S.R. .	5	9	10	207	285	440	2.5	4.0	6.7
Kirghiz A.S.S.R.	15	20	26	596	869	1,648	8 3	12.4	25.3
Omsk Region	41	53	74	1,721	2,552	4,124	26.5	39.9	75.6
West Siberian Territory	133	168	194	5,676	8,285	11,428	88 2	129.6	202.8
Krasnoyarsk Territory .	36	47	56	1,402	1,733	2,788	21.9	27.0	49.2
East Siberian Territory .	36	52	60	902	1,352	2.536	13.6	21.0	43.7
Yakut A.S.S.R.	3	7	11	169	177	279	2.1	2.2	5.2
Far Eastern Territory . .	60	60	73	1,957	2,166	2,933	29.8	39.1	65.7
II. Ukrainian S. S. R. . .	606	775	862	24,497	37,630	43,496	315.7	527.7	680.2
III. White Russian S. S. R.	60	71	88	1,546	2,052	2,771	18.5	26.2	39.7
IV. Transcaucasian S.F.S.R.	64	81	100	2,069	2,481	4,683	30.6	35.2	68.1
V. Uzbek S. S. R.	72	87	111	4,869	5,047	9,232	69.1	75.5	132,9
VI. Turkmenian S. S. R. .	25	33	40		1,240	1,906		17.7	27.2
VII. Tadjik S. S. R.	20	27	32		1,292	1,477		17.5	21.2

Table 3

Mechanization of Principal Field Operations on Collective Farms

(Per cent of total area in each group)

Principal Field Operations	1934	1935 [1]
A	1	2
Spring plowing	38.0	50.1
Spring crops, sowing	10.5	17.1
Fallow plowing	45.9	56.4
Grain harvesting: all tractor-drawn grain harvesting machines	14.4	22.6
Including: Combines	2.3	7.8
Sunflower harvesting	4.5	39.7
Flax harvesting	1.0	2.2
Sugar beet harvesting	4.9	47.2
Winter crops, sowing	13.9	20.7
Fall plowing	34.6	48.1

Table 4

Mechanization of Principal Field Operations on State Farms, 1934

(Per cent of total area)

Principal Field Operations	All State Farms	State Farms of the People's Commissariat of State Farms		State Farms of the People's Commissariat of Agriculture			State Farms of the People's Commissariat of Food Industry	
					Including:			
		All farms	Including: grain farms	All farms	Seed growing farms	Cotton farms	All farms	Including: State Farms of "Glavsakhar" [2]
A	1	2	3	4	5	6	7	8
Spring plowing	85.0	84.0	99.0	90.0	92.0	100.0	85.0	87.0
Fallow plowing	96 0	97.0	100.0	95.0	97.0	100.0	92.0	90.0
Spring and winter crops, sowing	78.0	81.0	99.0	85.0	89.0	98.0	51.0	52.0
Harvesting and haying	57.0	57.0	93.0	59.0	74.0	78 0	52.0	50.0
Including:								
Grain harvesting	...	...	97.0	...	82.0	91.0	...	53.0
Fall plowing	89.0	92.0	100.0	90.0	90.0	98.0	80.0	80.0
Threshing (with combines and complex threshers)	98.1	98.8	100.0	94.3	99.2	97.0	97.2	98.0

Table 5

Mechanized Harvesting of Grain Crops, Sunflower and Sugar Beet: State Farms and Collective Farms

(Per cent of total area harvested in each group)

Field Operations	1934	1935 [1]
A	1	2
Grain harvesting and threshing (with combines)		
Grain State Farms of the People's Commissariat of State Farms	74.0	97.0
Collective Farms	2.3	7.8
Sunflower harvesting		
Grain State Farms of the People's Commissariat of State Farms	84.0	87.0
Collective Farms	4.5	39.7
Sugar beet harvesting		
Grain State Farms of the People's Commissariat of State Farms	27.0	80.0
Collective Farms	4.9	47.2

[1] Preliminary data.

[2] Chief Administration of the Sugar Industry.

7. COLLECTIVE FARMS

Table 1

Collectivization of Agriculture from 1928—1935: By Constituent Republics

(As at June 1 of respective year)

Republics	Year	Number of Collective Farms (in thousands)	Per cent of peasant farmsteads collectivized	Per cent of sown area collectivized	Average size of Collective Farms, according to sown area (hectares)
A	B	1	2	3	4
U. S. S. R.	1928	33.3	1.7	2.3	41
	1932	211.1	61.5	77.6	434
	1933	224.5	64.4	83.1	417
	1934	233.3	71.4	87.4	422
	1935	245.4	83.2	94.1	426
	1936¹)	245.7	89,4	—	—
R.S F.S.R.	1928	21.6	1.6	2.2	47
	1932	155.2	60.3	81.1	441
	1933	169.5	64.5	84.7	410
	1934	176.3	72.0	88.8	416
	1935	185.6	83.4	94.8	418
Ukrainian S.S.R.	1928	9.7	2.5	2.9	32
	1932	25.3	69.0	83.0	713
	1933	24.1	69.5	86.1	783
	1934	26.4	78.0	90.6	735
	1935	27.4	91.0	98.0	737
White Russian S.S.R.	1928	0.6	0.7	0.8	41
	1932	9.6	47.8	54.4	186
	1933	9.4	48.8	55.1	199
	1934	9.8	55.3	63.9	224
	1935	10.8	79.0	83.9	249
Transcaucasian S.F.S.R.	1928	0.6	1.0	0.9	22
	1932	7.7	41.6	—	146
	1933	8.1	45.2	43.2	119
	1934	7.7	44.7	50.4	146
	1935	7.9	54.6	59.2	168
Uzbek S.S.R.	1928	0.7	1.2	1.2	28
	1932	9.7	—	—	—
	1933	9.7	73.2	81.3	186
	1934	8.8	79.9	86.5	213
	1935	8.5	84.7	89.7	235
Turkmenian S.S.R.	1928	0.1	0.5	0.6	19
	1932	1.5	73.0	—	173
	1933	1.5	72.9	90.4	202
	1934	1.5	75.4	90.1	200
	1935	1.6	81.5	92.4	204
Tadjik S.S.R.	1928	—	—	—	—
	1932	2.1	41.9	—	221
	1933	2.2	45.2	57.6	156
	1934	2.8	51.6	67.1	134
	1935	3.6	59.4	70.0	118

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[1]) As at April 1.

Notes: 1. Data for 1928-1930 are derived from censuses taken by the Central Statistical Board of the U.S.S.R. in existence at that time; for 1931-1935 according to returns of the People's Commissariat of Agriculture.

2. Figures for the Tadjik S S.R. for 1928 are included in the data for Uzbek S.S.R. Data for 1934 and 1935 are as at July 1.

8. FIELD HUSBANDRY

Total Sown Area:

(As of harvests for

Crops	1913	1920	1921	1922	1923
A	1	2	3	4	5
Total sown area (millions of hectares)	105.0	97.2	90.3	77.7	91.7
Total cereal crops (in millions of hectares)	94.4	87.0	79.8	66.2	78.6
Including:					
Rye, spring and winter	25.8	23.5	24.0	23.0	27.1
Wheat, winter	7.3	6.7	6.5	5.5	5.8
Wheat, spring	24.3	21.0	17.0	8.9	12.6
Barley, spring and winter	11.5	9.4	9.0	4.6	7.6
Oats	16.9	14.9	12.8	9.5	11.6
Maize	1.4	1.7	1.8	3.2	2.5
Other cereals	7.2	9.8	8.7	11.5	11.4
Industrial crops (thousands of hectares)					
Cotton	688.0	97.8[1])	99.1[1])	70.3	220.7
Flax	1,398.0	884.5	938.0	1,027.4	1,125.3
Of which: Long fiber	1,015.3	649.2	688.1	747.9	833.0
Sunflower	968,7	1,347.1	1,418.0	2,164.9	2,231.9
Hemp	645.0	446.1	456.2	501.9	619.6
Sugar beet (for refineries)	648.7	195.7	220.9	182.0	264.4
Tobacco	29.5	6.1	2.4	0.6	22.1
Coarse tobacco "Makhorka"	32.9	3.5	0.8	6.2	23.9
Potato	3,063.6	3,727.9	3,784.7	3,893.7	4,307.2
Grasses (thousands of hectares)					
a) Annual	2,050.0	no data	no data	no data	no data
b) Perennial					

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[1]) Exclusive of Khiva and Bokhara.

According to Crops
1913 and 1920-1935)

1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
6	7	8	9	10	11	12	13	14	15	16	17
98.1	104.3	110.3	112.4	113.0	118.0	127.2	136.3	134.4	129.7	131.5	132.8
82.9	87.3	93.7	94.7	92.2	96.0	101.8	104.4	99.7	101.5	104.7	103.4
28.1	28.8	28.5	27.3	24 6	24.9	28.9	27.6	26.2	25.4	24.0	23.5
6.7	7.9	9.0	10.7	6.2	6.6	10.1	11.3	11.8	10.8	10.8	12.5
15.3	17.0	20.4	20.6	21.6	23.2	23.7	25.6	22.7	22.4	24.5	24.6
7.4	6.5	7.4	6.9	7.3	8.1	7.4	6.9	6.8	7.3	8.5	8.7
12.9	12.8	15.3	17.9	17.2	18.9	17.9	17.5	15.4	16.7	18.0	18.3
2.5	3.4	3.0	2.7	4.5	3.5	3.7	4.0	3.7	3.9	3.7	3.2
10.0	10.9	10.1	8.6	10.8	10.8	10.1	11.5	13.1	15 0	15.2	12.6
447.4	591.0	653.7	802.1	971.3	1,055.5	1,582.6	2,137.3	2,172.0	2,051.6	1,940.6	1,953.5
1,284.3	1,575.8	1,566.4	1,580.6	1,735.6	2,053.6	2,249.3	3,138.1	3,155.0	2,710.7	2,355.9	2,330.1
973.4	1,269.2	1,270.5	1,204.3	1,364.1	1,630.6	1,749.1	2,390.9	2,510.0	2,394.6	2,109.8	2,106.7
2,607.4	3,096.7	2,589.2	2,832.8	3,904.9	3,620.2	3,385.6	4,574.6	5,306.0	3,896.6	3,500.1	3,309.4
778.4	922.6	927.6	897.3	912.7	872.5	728.1	941.3	944.3	755.0	602.8	604.9
379.2	533.8	537.9	665.4	769.7	770.7	1,035.8	1,394.1	1,537.8	1,210.7	1,183.3	1,225.1
22.1	39.0	37.7	45.1	45.2	47.1	53.7	93.0	99.2	90.4	89.0	89.8
36.3	50.0	56.5	40.9	36.2	42.8	40.7	107.9	147.5	105.1	102.4	107.3
4,651.4	5,023.1	5,205.3	5,462.0	5,677.6	5,691.7	5,726.5	6,169.3	6,111.4	5,655.7	6,130.4	7,375.6
817.3	724.9	1,100.4	909.9	1,163.3	1,468.1	2,016.9	3,283.2	4,461.3	3,089.9	3,032.0	4,256.7
678.6	846.3	1,051.9	1,779.0	2,403.8	3,154.5	3,944.0	4,128.1	3,788.9	2,878.7	2,857.7	2,862.9

Share of Socialized Agricultural

(Per cent

Crops	Types of socialized agricultural enterprises	1928
A	B	1
Total sown area	State Farms	1.5
	Collective Farms	1.2
Cereals	State Farms	1.2
	Collective Farms	1.1
Including:		
Wheat	State Farms	1.3
	Collective Farms	1.6
Industrial crops	State Farms	3.7
	Collective Farms	1.9
Including:		
Cotton	State Farms	1.6
	Collective Farms	1.8
Sugar beet	State Farms	26.3
	Collective Farms	1.6
Long fiber flax	State Farms	0.3
	Collective Farms	0.7

Enterprises in Total Sown Area

of total)

1929	1930	1931	1932	1933	1934	1935
2	3	4	5	6	7	8
1.9	3.1	8.0	10.0	10.9	11.5	12.2
3.5	29.9	57.9	68.1	72.2	75.0	78.7
1.6	2.8	7.7	9.3	10.7	11.1	11.7
3.5	29.2	58.5	69.3	73.8	77.2	81.6
2.1	5.3	13.0	12.8	12.2	11.9	12.2
5.4	43.9	67.3	77.9	81.1	82.3	84.1
4.0	5.9	5.2	6.5	5.4	5.6	5.8
4.4	41.8	68.0	76.3	81.1	83.5	88.9
1.4	3.5	6.9	7.0	6.3	5.5	5.1
5.7	39.1	65.1	78.3	83.5	86.2	89.1
28.2	19.5	13.2	12.9	8.3	8.8	9.9
3.4	37.3	61.4	72.0	79.4	85.2	89.2
0.4	1.0	1.6	2.1	0.4	0.4	0.3
2.2	15.1	51.7	63.5	72.8	77.7	90.7

Table 3

Productive Sown Area According to Type of Crops, as of Harvests for 1928-1935

(Total Agricultural Sector: State Farms, Collective Farms and individually-owned farms)

Republics	Year	In thousands of hectares									Per cent of total sown area				
		Cereals			Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops	Total sown area	Of which: Spring crops	Cereals	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops
		Winter crops	Spring crops	All cereal crops											
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U. S. S. R.	1928	30,684.5	61,487 8	92.172.3	8,615.4	7,683.4	3,871.5	649.8	112,992.4	82,307.9	81.6	7.6	6.8	3.4	0.6
	1929	31,397.4	64,614 4	96,011.8	8,799.8	7,635.0	4,983.1	620.0	118,049.7	86,652.3	81.3	7.5	6.5	4 2	0.5
	1930	38,888.5	62,872.7	101,761.2	10,465.7	7,968.2	6,506.9	515.8	127,217.8	88,329.3	80.0	8.2	6.3	5 1	0 4
	1931	38,799.0	65,606.8	104,405.8	14,039 3	9,059.0	8,780.7	—	136,284.8	97,485.8	76.6	10.3	6.6	6.5	—
	1932	37,934.7	61,765.0	99,699.7	14,877.2	9,215.4	10,631.6	10.8	134,434.7	96,500.0	74.2	11.1	6 8	7 9	0.0
	1933	36,199.3	65,354.8	101,554.1	11.981.0	8,675.1	7,321.0	162.1	129,693.3	93,494.0	78.3	9.2	6.7	5.7	0.1
	1934	34,847.6	69,829.7	104,677.3	10,724.8	8,834.5	7,143.4	93.3	131,473.3	96,625.7	79.6	8.2	6.7	5.4	0 1
	1935	36,044.2	67,396.0	103,440.2	10,641.8	9,936.5	8,608.7	150.0	132,777.2	96,733.0	77.9	8.0	7.5	6.5	0.1
I. R. S. F. S. R. . . .	1928	22,553.1	43.944.0	66,497.1	5.282.7	4,964.7	2,811.2	327.0	79,882.7	57,329.6	83.3	6.6	6.2	3.5	0.4
	1929	22,481.4	47,123.4	69,604.8	5.459.8	5,052.9	3,518.6	283.8	83,919.9	61,438.5	83.0	6.5	6.0	4.2	0.3
	1930	25,979.7	46,655.3	72,635 0	6,112.8	5,360.4	4,375.7	359.8	88,843.7	62,864.0	81.8	6.9	6.0	4.9	0.4
	1931	25,338.7	51,544.7	76,883.4	8,721.9	6,024.6	5,607.9	—	97,237.5	71,898.8	79.1	9.0	6.2	5.7	—
	1932	25,317.8	49,741.7	75,059.5	9.496.2	6,219.0	7,028.6	0.3	97,803.6	72,485.8	76.7	9.7	6.4	7.2	0.0
	1933	23,632.1	51.790.6	75,422.7	7,587.6	5,765.8	4,899.2	61.5	93,736.8	70.104,7	80.5	8.1	6.1	5.2	0.1
	1934	23,384.2	54,614.2	77,998.4	6.636.7	6,031.4	4,991.9	29.8	95,688.2	72,304.0	81.6	6.9	6.3	5.2	0.0
	1935	23.781.1	53,791.4	77,572.5	6,524.9	6,867.7	6,046.0	41.9	97,053.0	73,271.9	79.9	6.7	7.1	6.2	0.1
II. Ukrainian S.S.R. . .	1928	5,166.4	14,491.9	19,658.3	2.213.9	2 085.4	681.7	290.0	24,929.3	19,762.9	78.8	8.9	8.4	2.8	1.1
	1929	5,892.0	14,294.7	20,186.7	2,142.1	1,930.7	986.8	297.5	25,543.8	19,651.8	79.0	8.4	7.6	3.9	1.1
	1930	9,737 9	12,574.0	22,311.9	2,583.5	1,909.7	1,557.8	—	28,362.9	18,625.0	78.7	9.1	6.7	5.5	—
	1931	10,374.8	10,722.8	21,097.6	3,181.9	2,213.3	2,400.4	—	28,893.2	18,518 4	73.0	11.0	7.7	8.3	—
	1932	9,604.4	8,519.8	18,124.2	3,252.2	2,163.0	2,899.0	—	26,438.4	16,834.0	68.6	12.3	8.2	10.9	—
	1933	8,976.8	9,886.9	19,863.7	2,531.3	2,030.0	1,841.8	97.4	26,364.2	16,387.4	75.3	9.6	7.7	7.0	0.4
	1934	8,766.9	11.433.3	20,200.2	2.272.6	1,918.7	1,608.8	26.4	26,026.7	17,259.8	77.6	8.7	7.4	6 2	0.1
	1935	9,348.1	9,946.1	19,294.2	2,310.9	2,128.4	1,945.9	32.7	25,712.1	16,364.0	75.0	9.0	8.3	7.6	0.1

III. White Russian S.S.R.	1928	1,290.9	1,228.0	2,518.9	167.3	511.0	197.7	3.1	3,398.0	2,107.1	74.1	4.9	15.0	5.9	0.1
	1929	1,302.6	1,239.4	2,542.0	174.6	507.6	266.2	1.3	3,491.7	2,189.1	72.8	5.0	14.6	7.6	0.0
	1930	1,333.7	1,235.7	2,569.4	193.0	558.3	279.2	21.7	3,621.6	2,287.9	71.0	5.3	15.4	7.7	0.6
	1931	1,399.6	1,207.3	2,606.9	276.6	641.3	317.9	—	3,842.7	2,443.1	67.8	7.2	16.7	8.3	—
	1932	1,342.0	1,285.0	2,627.0	317.4	695.2	332.9	10.5	3,983.0	2,641.0	65.9	8.0	17.5	8.4	0.2
	1933	1,175.0	1,311.1	2.486.1	296.8	705.9	285.6	1.5	3,775.9	2,600.9	65.8	7.9	18.7	7.6	0.0
	1934	1,250.9	1,366.2	2,617.1	282.8	704.5	230.7	29.3	3,864.4	2,613.5	67.7	7.3	18.2	6.7	0.8
	1935	1,157.8	1,284 5	2.442.3	290.9	730.4	298.1	74.8	3,836.5	2,678.7	63.7	7.6	19.0	7.8	1.9
IV. Transcaucasian S.F.S.R.	1928	1,054.4	843.2	1,897.6	165.3	58.9	13.0	2.8	2,137.0	1,083.2	88 8	7.7	2.8	0.6	0.1
	1929	1,101.2	881.3	1.982.5	182.0	63.4	16.5	—	2,244.4	1,143.5	83.4	8.1	2.8	0.7	—
	1930	1,203.5	890.5	2,094.0	264.7	59.5	53.8	—	2,472.0	1,268.5	84.7	10.7	2.4	2.2	—
	1931	1.121.1	817.5	1,938.6	401.3	74.8	54.3	—	2,469.0	1,347.9	78.5	16.3	3.0	2.2	—
	1932	1,097 5	955.4	2,052.9	368.4	85.2	78.7	—	2,585.2	1,487.7	79.4	14.2	3.3	3.1	—
	1933	949.5	966.7	1,916.2	304.0	90.6	59.1	0.8	2,370.7	1,421.2	80.8	12.8	3.8	2.5	0.1
	1934	986.3	1,004.4	1,990.7	322.8	95.2	71.4	1.1	2,481.2	1,494.9	80.3	13.0	3.8	2.9	0.1
	1935	1,055.2	997.6	2,052.8	289.3	107.4	102.1	0.5	2,552.1	1,496.9	80.5	11.3	4.2	4.0	0.0
V. Uzbek S.S.R. . . .	1928	375.4	616.7	992.1	599.0	45.8	130.4	—	1.767.3	1,391.9	56.2	33.9	2.5	7.1	—
	1929	361.2	681.6	1,042 8	628.4	58.0	155.9	5.7	1,890.8	1,529.6	55.2	33.2	3.1	8.2	0 3
	1930	489.0	834.6	1,323.6	931.7	58.0	182.4	100.2	2,595.9	2.106.9	51.0	35.9	2.2	7.0	3.9
	1931	264.0	804.8	1,068.8	1,069.9	80.0	323.6	—	2,542.3	2,278.3	42.1	42.1	3.1	12 7	—
	1932	267.0	812.9	1,279.9	1,062.2	37.7	239.7	—	2,419.5	2,152.5	44.6	43.9	1.3	9.9	—
	1933	309.3	960.4	1,269.7	951.4	67.1	165.0	—	2,453.2	2,143.9	51.8	38.8	2.7	6.7	—
	1934	285.8	986.7	1,272.5	925.5	52.4	184.7	—	2,435.1	2,149,3	52.3	38.0	2.1	7.6	—
	1935	490.4	906.8	1,397.2	929.1	66.8	157.3	0.1	2,550.5	2,060.1	54.8	36.4	2.6	6.2	0.0
VI. Turkmenian S.S.R. .	1928	100.5	77.5	178.0	117.8	9.7	26.7	—	332.2	231.7	53.6	35.4	2.9	8.1	—
	1929	109.2	77.4	186.6	127.7	13.3	28.7	—	356.3	247.1	52.4	35.8	3.7	8.1	—
	1930	107.7	80.0	187.7	181.0	13.4	36.5	7.6	426.2	318.5	44.0	42.4	3.2	8.6	1.8
	1931	78.8	76.7	155.5	203.0	13.9	48.9	—	421.3	342.5	36.9	48.2	3.3	11.6	—
	1932	83 0	99.5	182.2	202.2	10.3	31.0	—	426.0	343.0	42 9	47.4	2.4	7.3	—
	1933	71.5	78.4	149.9	167.1	8.3	38.0	—	363.3	291.8	41.3	46.0	2.3	10.4	—
	1934	86.5	84.2	170.7	161.1	19.3	30.6	0.5	382.2	295.7	44.7	42.2	5.0	8.0	0.1
	1935	94.5	105.8	200.3	161.1	15.9	30.7	—	407.9	313.4	49.1	39.5	3.9	7.5	—
VII. Tadjik S.S.R.	1928	143.8	286.5	430.3	69.4	7.9	10.8	26.9	545.3	401.5	78.9	12.7	1.5	2.0	4.9
	1929	149.8	316.6	466.4	85.2	9.1	10.4	31.7	602.8	453.0	77.4	14.2	1.5	1.7	5.2
	1930	37.0	602.6	639.6	199.0	8 9	21.5	26.5	895.5	858.5	71.4	22.2	1.0	2.4	3.0
	1931	222 0	433.0	655.0	184.7	11.1	28.0	—	878.8	656.8	74.5	21.0	1.3	3.2	—
	1932	223.5	350.7	573.7	178.6	5 0	21.7	—	779.0	556.0	73.7	22.9	0.6	2.8	—
	1933	85.1	360.7	445 8	142.8	7.4	32.3	0.9	629.2	544.1	70.9	22.7	1.2	5.1	0.1
	1934	87.0	340.7	427.7	123.3	13.0	25.3	6.2	595.5	508.5	71.8	20.7	2.2	4.3	1.0
	1935	117.1	363 8	480.9	135.7	19 9	29.6	—	665.1	548.0	72.3	20.4	3.0	4.3	—

Table 4

Productive Sown Area According to Type of Crops, as of Harvests for 1928-1935 [1])

On State Farms

Republics	Year	In thousands of hectares									Per cent of total sown area				
		Cereals													
		Winter crops	Spring crops	All cereal crops	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops	Total sown area	Of which: Spring crops	Cereals	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U. S. S. R.	1928	326.0	770.5	1,096.5	317.6	45.5	237.9	37.5	1,735.0	1,409.0	63.2	18.3	2.6	13.7	2.2
	1929	400.5	1,136.7	1,537.2	350.9	50.8	298.0	36.9	2,273.8	1,873.3	67.6	15.4	2.3	13.1	1.6
	1930	771.3	2,152.5	2,923.8	620.4	112.9	244.2	24.9	3,926.2	3,154.9	74.5	15.8	2.9	6.2	0.6
	1931	1,752.5	6.329.5	8,082.0	736.0	634.4	1,505.2	—	10.958.3	9,205.8	73.8	6.7	5.8	13.7	—
	1932	2,423.4	6,820.7	9,244.1	972.6	802.7	2,426.1	2.0	13,447.5	11,024.1	68.7	7.2	6.0	18.0	0.1
	1933	2,786.7	8,058.2	10,844.9	645.3	1,046.6	1,574.8	27.2	14,138.8	11,352.1	76.7	4.6	7.4	11.1	0.2
	1934	2,958.3	8,649.6	11,607.9	596.7	1,136.4	1,751.9	17.0	15,109.9	12,151.6	76.9	3.9	7.5	11.6	0.1
	1935	3,470.8	8,583.4	12,054.2	616.2	1,181.8	2,309.5	30.8	16,192.5	12,721.7	74.4	3.8	7.3	14.3	0.2
I. R. S. F. S. R.	1928	191.3	482.1	673.4	116.5	25.4	147.4	25.5	988.2	796.9	68.1	11.8	2.6	14.9	2.6
	1929	250.7	788.0	1,038.7	136.8	30.8	185.1	26.6	1,418.0	1,167.3	73.2	9.6	2.2	13.1	1.9
	1930	424.2	1,817.5	2,241.1	199.1	88.3	222.1	21.0	2,772.2	2,348.0	80.9	7.2	3.2	8.0	0.7
	1931	1,243.9	5,420.4	6,664.3	388.1	441.7	928.1	—	8,422.2	7,178.3	79.1	4.6	5.2	11.1	—
	1932	1,583.6	5,647.0	7,230.6	563.2	562.9	1,453.0	0.1	9,809.8	8,226.2	73.7	5.7	5.8	14.8	0.0
	1933	1,724.4	6,454.7	8,179.1	359.5	707.8	999.7	25.2	10,271.3	8,546,9	79.7	3.5	6.9	9.7	0.2
	1934	1,903.8	6,872.8	8,776.6	312.4	781.9	1,132.8	8.4	11,012.1	9,108.6	79.7	2.8	7.1	10.3	0.1
	1935	2,259.7	6,934.4	9,194.1	325.4	786.9	1,542.7	14.4	11,863.5	9,603.8	77.5	2.8	6.6	13.0	0.1
II. Ukrainian S.S.R. . . .	1928	122.4	274.7	397.1	192.8	12.2	73.9	10.8	686.8	564.4	57.8	28.1	1.8	10.8	1.5
	1929	135.4	321.2	456.6	205.3	11.7	97.3	6.0	776.9	641.5	58.8	26.4	1.5	12.5	0.8
	1930	318.5	302.0	620.5	368.2	11.0	8.8	—	1,008.5	690.0	61.5	36.5	1.1	0.9	—
	1931	450.6	794.8	1,245.1	243.8	145.3	493.4	—	2,127.9	1.677.3	58.5	11.5	6.8	23.2	—
	1932	713.1	999.0	1,712.1	308.0	180.0	829.0	—	3,029.1	2,316.0	56.5	10.2	5.9	27.4	—
	1933	935.5	1,339.5	2,275.0	206.6	253.4	445.8	—	3,180.8	2,245.3	71.5	6.5	8.0	14.0	—
	1934	899.2	1,510.3	2,409.5	209.8	278.4	502.3	4.3	3,404.3	2,505.1	70.8	6.2	8.2	14.7	0.1
	1935	1,005.0	1,402.9	2,407.9	217.1	312.6	641.9	4.6	3,584.1	2,579.1	67.2	6.1	8.7	17.9	0.1

III. White Russian S.S.R.	1928	9.7	11.4	21.1	0.1	7.9	14.5	0.6	44.2	34.5	47.7	0.2	17.9	32.8	1.4
	1929	9.6	11.6	21.2	0.2	8.1	12.4	0.7	42.6	33.0	49 8	0.5	19.0	29.1	1.6
	1930	11.1	26.4	37.5	2.1	12.9	12.1	3.6	68.2	57.1	55.0	3.1	18.9	17.7	5.3
	1931	9.6	35.8	45.4	2.9	24.6	34.4	—	107.3	97.7	42.3	2.7	22.9	32.1	—
	1932	25.0	66.9	91.9	4.3	34.4	62.5	1.9	195,0	170.0	47.1	2.2	17.6	32.1	1.0
	1933	38.4	99.4	137.8	1.5	48.8	64.9	1.4	254.4	216.0	54.2	0.6	19.2	25.5	0.5
	1934	46.3	94.1	140.4	1.1	46.7	51.8	4.2	244.2	197.9	57.5	0.5	19.1	21.2	1.7
	1935	46.7	95.8	142.5	1.0	50.0	58.5	11 5	263.5	216.8	54.1	0.4	19.0	22.2	4.3
IV. Transcaucasian S.F.S.R.	1928	1.9	0.7	2.6	2.4	—	0.8	0.6	6.4	4.5	40.6	37.5	—	12.5	9.4
	1929	3.3	2.8	6.1	2.4	0.2	0.8	—	9.5	6.2	64.2	25.3	2.1	8.4	—
	1930	3.4	3.6	7.0	7.9	0.7	1.2	—	16.8	13.4	41.7	47.0	4.2	7.1	—
	1931	12.3	9.7	22.0	28.1	7 5	10.3	—	67.9	55.6	32.4	41.4	11.0	15.2	—
	1932	53.7	20.6	74.3	27.5	11.5	25.0	—	138.3	84.6	53.7	19.9	8.3	18.1	—
	1933	48.5	38.7	87.2	18.3	14.5	19.9	—	139.9	91.4	62.3	13.1	10.4	14.2	—
	1934	59.7	42.7	102.4	17.5	12.4	16.5	—	148.8	89.1	68.8	11.8	8.3	11.1	—
	1935	79.5	32.7	112.2	14.8	12.2	22.1	0.2	161.5	82.0	69.5	9.2	7.5	13.7	0.1
V. Uzbek S.S.R.	1928	0.7	1.6	2.3	3.9	—	1.0	—	7.2	6.5	31.9	54.2	—	13.9	—
	1929	1.5	12.8	14.3	4.3	—	1.7	3.6	23.9	22.4	59.8	18.0	—	7.1	15.1
	1930	14,1	—	14.1	30.7	—	—	0.3	45.1	31.0	31.3	68.1	—	—	0.6
	1931	18.6	60.8	79.4	59.8	14.0	32.6	—	185.8	167.2	42.7	32.2	7.5	17.6	—
	1932	23.0	72.7	95.7	56.2	11.5	41.9	—	205.3	182.3	46.6	27.4	5.6	20.4	—
	1933	32.2	103.6	135.8	50.4	18.6	33.0	—	237.8	205.6	57.1	21.2	7.8	13.9	—
	1934	33.7	108.5	142.2	48.8	12.1	39.0	—	242.1	208.4	58.7	20.2	5.0	16.1	—
	1935	63.2	93.1	156.3	50.2	14.6	35.9	0.1	257.1	193.9	60.8	19.5	5.7	14.0	0.0
VI. Turkmenian S.S.R. .	1928	—	—	—	1.9	—	0.3	—	2.2	2.2	—	86.4	—	13.6	—
	1929	—	0.3	0.3	1.6	—	0.7	—	2.6	2.6	11.6	61.5	—	26.9	—
	1930	—	—	—	5.4	—	—	—	5.4	5.4	—	100.0	—	—	—
	1931	6.1	3.0	9.1	3.5	1.2	4.1	—	17.9	11.8	50.8	19.5	6.7	23.0	—
	1932	10.0	4.0	14.0	5.0	1.1	5.9	—	26.0	16.0	53.8	19.2	4.2	22.8	—
	1933	6.1	11.5	17.6	2.6	1.8	5 2	—	27.2	21.1	64.7	9.6	6.6	19.1	—
	1934	10.5	10.5	21.0	1.9	3.3	2.9	--	29.1	18.6	72.2	6.5	11.3	10.0	—
	1935	10.9	11.4	22.3	2.2	3.1	2.8	—	30.4	19.5	73.4	7.2	10.2	9.2	—
VII. Tadjik S.S.R.	1928	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1929	—	—	—	0.3	—	—	—	0.3	0.3	—	100.0	—	—	—
	1930	—	3.0	3.0	7.0	—	—	—	10.0	10.0	30.0	70.0	—	—	—
	1931	11.4	5.0	16.4	9.8	0.1	3.0	—	29.3	17.9	55.9	33.6	0.3	10.2	—
	1932	15.0	10.5	25.5	8.4	1.3	8,8	—	44 0	29.0	57.9	19.1	3.0	20.0	—
	1933	1.6	10.8	12.4	6.4	1.7	6.3	0.6	27.4	25.8	45.2	23.4	6.2	23.0	2.2
	1934	5.1	10.7	15.8	5.2	1.6	6.6	0.1	29.3	24.2	53.9	17.8	5.5	22.5	0.3
	1935	5.8	13.1	18.9	5.5	2.4	5.6	—	32.4	26.6	58.3	17.0	7.4	17.3	—

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[1] Including area sown on farms run by Workers' Supply Departments, Cooperative Organizations and various other institutions.

Table 5

Productive Sown Area According to Type of Crops, as of Harvests for 1928-1935

On Collective Farms

Republics	Year	In thousands of hectares									Per cent of total sown area				
		Cereals			Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops	Total sown area	Of which: Spring crops	Cereals	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops
		Winter crops	Spring crops	All cereal crops											
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U. S. S. R.	1928	189.2	847.2	1,036.4	160.2	59.3	88.3	22.7	1,366.9	1,177.7	75.8	11.7	4.3	6.5	1.7
	1929	617.0	2.773.5	3,390.5	388.3	135.2	214.6	26.3	4,154.9	3,537.9	81.6	9.4	3.2	5.2	0.6
	1930	5,434.4	24,255.9	29,690.3	4,375.2	1,839.6	2,026.0	149.8	38,080.9	32,646.5	78.0	11.5	4.8	5.3	0.4
	1931	20,331.5	40,686.1	61,017.6	9,539.0	3,635.2	4,780.4	—	78.972.2	58,640.7	77.3	12.1	4.6	6.0	—
	1932	24,886.7	44,233.0	69.119.7	11,351.0	4,411.1	6,651.3	0.2	91,533.3	66,646.6	75.5	12.4	4.8	7.3	0.0
	1933	25,984,5	48,977.5	74,962,0	9,716.7	3,747.4	5,111.1	107.4	93.644.6	67,660.1	80.0	10.4	4.0	5.5	0.1
	1934	26,628.0	54,217.6	80,845.6	8,960.3	3,719.7	4,986.9	43.8	98,556.3	71,928.3	82.0	9.1	3.8	5.1	0.0
	1935	29,592.0	54,838.4	84,430.4	9,456.5	4,449.5	6,061.1	112.9	104,510.4	74,918.4	80.8	9.0	4.3	5 8	0.1
I. R. S. F. S. R. . . .	1928	134.9	643.4	778.3	110.8	35.7	60.6	17.3	1,002.7	867.8	77.6	11.1	3.6	6.0	1.7
	1929	448.6	2,114.2	2,562.8	246.1	83.2	149.3	16.0	3,057.4	2,608.8	83.8	8.1	2.7	4.9	0.5
	1930	3,042.4	17.034.2	20,076.6	2,556.7	1,088.0	1,066.1	113.2	24,900.6	21,858.2	80.6	10.3	4 4	4.3	0.4
	1931	12,735.0	32,405.5	45,140.5	6,120.9	2,490.7	3,021.8	—	56,773.9	44,038.9	79.5	10.8	4.4	5.3	—
	1932	16,633.5	36,431.6	53,065.1	7,485.8	3,307.2	4,509.6	0.2	68.367.9	51.734.4	77.7	10.9	4.8	6.6	0.0
	1933	17,137.9	39,812.0	56,949.9	6,254.1	2,740.7	3.512.2	31.1	69,488.0	52,350.1	82.0	9.0	3.9	5.1	0.0
	1934	18,126.1	43,139 7	61,265.8	5,609.2	2,750.3	3,604.5	11.9	73,241 7	55,115.6	83.6	7.7	3.8	4.9	0.0
	1935	19,733.6	44,383.7	64,117.3	5,847.2	3,201.0	4,374.2	26.2	77,565.9	57,832.3	82.7	7.6	4.1	5.6	0.0
II. Ukrainian S.S.R. . .	1928	42.2	189.5	231.7	31.5	18.6	20.5	3.4	305.7	263.5	75.8	10.3	6.1	6.7	1.1
	1929	136.0	605.9	741.9	84.2	42.7	51.8	8.1	928.7	792.7	79.9	9.1	4.6	5.6	0.8
	1930	2,105.2	6,393.0	8,498.2	1,283.9	663.1	807.0	—	11,252.2	9,147.0	75 5	11.4	5.9	7.2	—
	1931	6,463.4	7,054.9	13,518.3	2,186.8	873 6	1,393.8	—	17.972.5	11.509.1	75.2	12.2	4.9	7.7	—
	1932	6,764.2	6,240.8	13,005 0	2,482.2	782.0	1,780.0	—	18,049.2	11,285.0	72.1	13.7	4.3	9.9	—
	1933	7.627.6	7,278.0	14,905.6	1,997.2	643.0	1,255.0	76.0	18,876.8	11.249.2	79.0	10.6	3.4	6.6	0.4
	1934	6,991.0	8,967.9	15,958.9	1,876.5	573.6	1,008.1	12.8	19,429.9	12,438.9	82.1	9.7	2.9	5.2	0.1
	1935	8,022.7	8,113.2	16,135.9	2,039.7	752.1	1,225.5	27.2	20,180.4	12,157.7	80.0	10.1	3.7	6.1	0.1

III. White Russian S.S.R.	1928	6.0	7.8	13.8	0.7	3.9	5.6	1.2	25.2	19.2	54.8	2.8	15.5	22.2	4.7
	1929	9.7	13.7	23.4	1.5	6.6	8.7	0.5	40.7	31.0	57.5	3.7	16.2	21.4	1.2
	1930	69.2	206.3	275.5	25.8	74.3	108.2	4.6	488.4	419.2	56.4	5.3	15.2	22.2	0.9
	1931	439.3	428.9	868.2	120.3	206.1	129.7	—	1,324.3	885.0	65.6	9.1	15.6	9.7	—
	1932	610.0	536.9	1,146.9	182.4	272.2	180.5	—	1,782.0	1,172.0	64.4	10.2	15.3	10.1	—
	1933	527.4	703.2	1,230.6	186.7	285.8	165.7	0.1	1,868.9	1,341.5	65.8	10.0	15.3	8.9	0.0
	1934	725.4	798.8	1,524.2	192.7	312.7	151.4	17.7	2,198.7	1,473.3	69.3	8.8	14.2	6.9	0.8
	1935	760.4	978.4	1,738.8	247.8	410.6	231.8	59.2	2,688.2	1,927.8	64.7	9.2	15.3	8.6	2.2
IV. Transcaucasian S.F.S.R.	1928	3.7	2.7	6.4	4.6	0.4	0.3	0.8	12.5	8.8	51.2	36.8	3.2	2.4	6.4
	1929	16.0	11.1	27.1	12.0	1.3	1.0	—	41.4	25.4	65.4	29.0	3.1	2.5	—
	1930	74.7	180.4	255.1	79.8	12.8	14.3	—	362.0	287.3	70.5	22.0	3.5	4.0	—
	1931	419.0	214.9	633.9	213.7	21.4	25.0	—	894.0	475.0	70.9	23.9	2.4	2.8	—
	1932	553.0	283.8	836.8	220.1	27.6	41.3	—	1,125.8	572.8	74.3	19.6	2.5	3.6	—
	1933	372.5	309.5	682.0	217.9	30.8	31.4	0.2	962.3	589.8	70.9	22.6	3.2	3.3	—
	1934	455.1	361.9	817.0	233.1	34.8	46.3	—	1,131.2	676.1	72.2	20.6	3.1	4.1	—
	1935	551.9	432.1	984.0	226.7	42.6	70.8	0.3	1,324.4	772.5	74.3	17.1	3.2	5.4	0.0
V. Uzbek S.S.R.	1928	2.3	3.6	5.9	11.8	0.7	1.2	—	19.6	17.3	30.1	60.2	3.6	6.1	—
	1929	4.9	22.9	27.8	33.5	1.0	3.1	1.3	66.7	61.8	41.7	50.2	1.5	4.6	2.0
	1930	121.0	373.0	494.0	290.0	0.8	6.6	11.1	802.5	681.5	61.6	36.1	0.1	0.8	1.4
	1931	122.1	345.0	467.1	659.6	30.5	167.0	—	1,324.2	1,202.1	35.3	49.8	2.3	12.6	—
	1932	141.0	474.9	615.9	735.4	15.2	118.7	—	1,485.2	1,344.2	41.5	49.5	1.0	8.0	—
	1933	217.0	644.6	861.6	802.9	37.4	100.0	—	1,801.9	1,584.9	47.8	44.6	2.1	5.5	—
	1934	202.5	699.0	901.5	802.3	34.9	136.9	—	1,875.6	1,673.1	48.0	42.8	1.9	7.3	—
	1935	366.4	653.9	1,020.3	831.8	31.5	114.7	—	1,998.3	1,631.9	51.1	41.6	1.6	5.7	—
VI. Turkmenian S.S.R. .	1928	0.1	0.2	0.3	0.8	—	0.1	—	1.2	1.1	25.0	66.7	—	8.3	—
	1929	1.1	4.2	5.3	7.6	0.2	0.5	—	13.6	12.5	37.1	58.0	1.4	3.5	—
	1930	17.0	32.0	49.0	68.8	0.4	16.5	7.6	142.3	125.3	34.4	48.3	0.3	11.6	5.4
	1931	39.8	33.9	73.7	124.6	6.9	24.1	—	229.3	189.5	32.1	54.3	3.0	10.6	—
	1932	50.0	46.2	96.2	146.7	3.9	12.4	—	259.2	209.2	37.1	56.6	1.5	4.8	—
	1933	56.9	61.6	118.5	149.7	5.5	29.7	—	303.4	246.5	39.1	49.3	1.8	9.8	—
	1934	66.1	63.8	129.9	144.7	7.5	25.7	—	307.8	241.7	42.2	47.0	2.4	8.4	—
	1935	73.6	77.3	150.9	148.6	6.3	27.0	—	332.8	259.2	45.3	44.7	1.9	8.1	—
VII Tadjik S.S.R. . . .	1928	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1929	0.7	1.5	2.2	3.4	0.2	0.2	0.4	6.4	5.7	34.4	53.1	3.1	3.1	6.3
	1930	4.9	37.0	41.9	70.2	0.2	7.3	13.3	132.9	128.0	31.5	52.8	0.1	5.5	10.1
	1931	112.9	203.0	315.9	115.1	6.0	19.0	—	454.0	341.1	69.6	24.9	1.3	4.2	—
	1932	135.0	218.8	353.8	98.4	3.0	8.8	—	464.0	329.0	76.3	21.2	0.6	1.9	—
	1933	45.2	168.6	213.8	108.2	4.2	17.1	—	343.3	298.1	62.3	31.5	1.2	5.0	—
	1934	61.8	186.5	248.3	101.8	5.9	14.0	1.4	371.4	309.6	66.8	27.4	1.6	3.8	0.4
	1935	83.4	199.8	283.2	114.7	5.4	17.1	—	420.4	337.0	67.4	27.3	1.3	4.0	—

Table. 6

Productive Sown Area According to Type of Crops, as of Harvests for 1923-1935 [1])

On Individually-Owned Peasant Farms

Republics	Year	In thousands of hectares									Per cent of total sown area				
		Cereals													
		Winter crops	Spring crops	All cereal crops	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops	Total sown area	Of which: Spring crops	Cereals	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U. S. S. R.	1928	30,169.3	59,870.1	90,039.4	8,137.6	7,578.6	3,545.3	589.6	109,890.5	79,721.2	81.9	7.4	6.9	3.2	0.6
	1929	30,379.9	60,704.2	91,084.1	8,060.6	7,449.0	4,470.5	556.8	111,621.0	81,241.1	81.6	7.2	6.7	4.0	0.5
	1930	32,682.8	36,464.3	69,147.1	5,470.1	6,015.7	4,236.7	341.1	85,210.7	52,527.9	81.1	6.4	7.1	5.0	0.4
	1931	16,715.0	18,591.2	35,306.2	3,764.3	4,789.4	2,494.4	—	46,354.3	29,639.3	76.2	8.1	10.3	5.4	—
	1932	10,624.6	10,711.3	21,335.9	2,553.6	4,001.6	1,554.2	8.6	29,453.9	18,829.3	72.4	8.7	13.6	5.3	0.0
	1933	7,428.1	8,319.1	15,747.2	1,619.0	3,881.1	635.1	27.5	21.909.9	14,481.8	71.9	7.4	17.7	2.9	0.1
	1934	5,261.3	6,962.5	12,223.8	1,167.8	3,978.4	404.6	32.5	17.807.1	12,545.8	68.6	6.6	22.3	2.3	0.2
	1935	2,981.4	3,974.2	6,955.6	569.1	4,305.2	238.1	6.3	12,074.3	9,092.9	57.6	4.7	35.7	2.0	0.0
I. R. S. F. S. R.	1928	22,226.9	42,818.5	65,045.4	5.055.4	4,903.6	2,603.2	284.2	77,891.8	55,664.9	83.5	6.5	6.3	3.3	0.4
	1929	21,782.1	44,221.2	66,003.3	5,076.9	4,938.9	3,184.2	241.2	79,444.5	57,662.4	83.1	6.4	6.2	4.0	0.3
	1930	22,513.1	27,803.6	50,316.7	3,357.0	4,184.1	3.087.5	225.6	61,170.9	38,657.8	82.2	5.5	6.8	5.0	0.5
	1931	11,359.8	13,718.8	25,078.6	2,212.9	3,092.2	1,657.7	—	32.041.4	20.681.6	78.2	6.9	9.6	5.3	—
	1932	7,100.7	7,663.1	14,763.8	1,447.2	2,348.9	1,066.0	—	19.625.9	12,525.2	75.2	7.4	12.0	5.4	—
	1933	4,769.8	5,523.9	10,293.7	974.0	2,317.3	387.3	5.2	13,977.5	9,207.7	73.6	7.0	16.6	2.8	0.0
	1934	3,354.3	4,601.7	7,956.0	715.1	2.499.2	254.6	9.5	11.434.4	8,080.1	69.6	6.3	21.8	2.2	0.1
	1935	1,787.8	2,473.3	4,261.1	352.3	2,879.8	129.1	1.3	7,623.6	5,835.8	55.9	4.6	37.8	1.7	0.0
II. Ukrainian S.S.R.	1928	5,001.8	14,027.7	19,029.5	1,989.6	2.054.6	587.3	275.8	23,936.8	18.935.0	79.5	8.3	8.6	2.5	1.1
	1929	5,620.6	13,367.6	18,988.2	1,852.6	1,876.3	837.7	283.4	23,838.2	18,217.6	79.6	7.8	7.9	3.5	1.2
	1930	7,314.2	5,879.0	13,193.2	931.4	1,235.6	742.0	—	16,102.2	8,788.0	81.9	5.8	7.7	4.6	—
	1931	3,460.8	2,873.1	6,333.9	751.3	1,194.4	513.2	—	8,792.8	5.332.0	72.0	8.5	13.6	5.9	—
	1932	2,127.1	1,280.0	3,407.1	462.0	1,201.0	290.0	—	5,360.1	3,233.0	63.6	8.6	22.4	5.4	—
	1933	1,413.7	1,269.4	2,683.1	327.5	1.133.6	141.0	21.4	4,306.6	2,892.9	62.3	7.6	26.3	3.3	0.5
	1934	876.7	955.1	1,831.8	186.3	1,066.7	98.4	9.3	3,192.5	2,315.8	57.4	5.8	33.4	3.1	0.3
	1935	320.4	430.0	750.4	54.1	1,063.7	78.5	0.9	1,947.6	1,627.2	38.5	2.8	54.6	4.0	0.1

* III. White Russian S.S.R.	1928	1,275.2	1,208.8	2,484.0	166.5	499.2	177.6	1.3	3,328.6	2,053.4	74.6	5.0	15.0	5.3	0.1
	1929	1,283.3	1,214.1	2,497.4	172.9	492.9	245.1	0.1	3,408.4	2,125.1	73.3	5.1	14.5	7.1	0.0
	1930	1,253.4	1,003.0	2,256.4	165.1	471.1	158.9	13.5	3,065.0	1,811.6	73.6	5.4	15.4	5.2	0.4
	1931	950.7	742.6	1,693.3	153.4	410.6	153.8	—	2,411.1	1,460.4	70.2	6.4	17.0	6.4	—
	1932	707.0	681.2	1,388.2	130.7	388.6	89.9	8.6	2,006.0	1,299.0	69.2	6.5	19.4	4.5	0.4
	1933	609.2	508.5	1,117.7	108.6	371.3	55.0	—	1,652.6	1,043.4	67.6	6.6	22.5	3.3	—
	1934	479.2	473.3	952.5	89.0	345.1	27.5	7.4	1,421.5	942.3	67.0	6.3	24.3	1.9	0.5
	1935	350.7	210.3	561.0	42.1	269.8	7.8	4.1	884.8	534.1	63.4	4.7	30.5	0.9	0.5
IV. Transcaucasian S.F.S.R.	1928	1,048.8	839.8	1,888.6	158.3	58.5	11.9	1.4	2,118.7	1,069.9	89.1	7.5	2.8	0.6	0.0
	1929	1,081.9	867.4	1,949.3	167.6	61.9	14.7	—	2,193.5	1,111.6	88.8	7.6	2.8	0.8	—
	1930	1,125.4	706.5	1,831.9	177.0	46.0	38.3	—	2,093.2	967.8	87.5	8.5	2.2	1.8	—
	1931	689.8	592.9	1,282.7	159.5	45.9	19.0	—	1,507.1	817.3	85.1	10.6	3.0	1.3	—
	1932	490.8	651.0	1,141.8	120.8	46.1	12.4	—	1,321.1	830.3	86.4	9.1	3.5	1.0	—
	1933	528.5	618.5	1.147.0	67.8	45.3	7.8	0.6	1,268.5	740.0	90.4	5.4	3.6	0.6	0.0
	1934	471.5	599.8	1,071.3	72.2	48.0	8.6	1.1	1.201.2	729.7	89.2	6.0	4.0	0.7	0.1
	1935	423.8	532.8	956.6	47.8	52.6	9.2	—	1,066.2	642.4	89.7	4.5	4.9	0.9	—
V. Uzbek S.S.R.	1928	372.4	611.5	983.9	583.3	45.1	128.2	—	1,740.5	1,368.1	56.5	33.5	2.6	7.4	—
	1929	354.8	645.9	1,000.7	590.6	57.0	151.1	0.8	1,800.2	1,445.4	55.6	32.8	3.2	8.4	0.0
	1930	353.9	461.6	815.5	611.0	57.2	175.8	88.8	1,748.3	1,394.4	46.6	34.9	3.3	10.1	5.1
	1931	123.3	399.0	522.3	350.5	35.5	124.0	—	1,032.3	909.0	50,6	33.9	3.4	12.1	—
	1932	103.0	265.3	368.3	270.6	11.0	79.1	—	729.0	626.0	50.5	37.2	1.5	10.8	—
	1933	60.1	212.2	272.3	98.1	11.1	32.0	—	413.5	353.4	65.9	23.7	2.7	7.7	—
	1934	49.6	179.2	228.8	74.4	5.4	8.8	—	317.4	267.8	72.1	23.4	1.7	2.8	—
	1935	60.8	159.8	220.6	47.1	20.7	6.7	—	295.1	234.3	74.7	16.0	7.0	2.3	—
VI. Turkmenian S.S.R. . .	1928	100.4	77.3	177.7	115.1	9.7	26.3	—	328.8	228.4	54.0	35.0	2.9	8.1	—
	1929	108.1	72.9	181.0	118.5	13.1	27.5	—	340.1	232.0	53.3	34.7	3.9	8.1	—
	1930	90.7	48.0	138.7	106.8	13.0	20.0	—	278 5	187.8	49.8	38.3	4.7	7.2	—
	1931	32.9	39.8	72.7	74.9	5.8	20.7	—	174.1	141.2	41.7	43.0	3.3	12.0	—
	1932	23.0	49.3	72.3	50.5	5.3	12.7	—	140.8	117.8	51.3	35.9	3.8	9.0	—
	1933	8.5	5.3	13.8	14.8	1,0	3.1	—	32.7	24.2	42.2	45.3	3.0	9.5	—
	1934	9.9	9.9	19.8	14.5	8.5	2.0	0.5	45.3	35.4	43.7	32.0	18.8	4.4	1.1
	1935	10.0	17.1	27.1	10.2	6.5	0.9	—	44.7	34.7	60.6	22.8	14.6	2.0	—
VII. Tadjik S.S.R.	1928	143.8	286.5	430.3	69.4	7.9	10.8	26.9	545.3	401.5	78.9	12.7	1.4	2.0	5.0
	1929	149.1	315.1	464.2	81.5	8.9	10.2	31.3	596.1	447.0	77.8	13.7	1.5	1.7	5.3
	1930	32.1	562.6	594.4	121.8	8.7	14.2	13.2	752.6	720.5	79.0	16.2	1.1	1.9	1.8
	1931	97.7	225.0	322.7	61.8	5.0	6.0	—	395.5	297.8	81.6	15.6	1.3	1.5	—
	1932	73.0	121.4	194.4	71.8	0.7	4.1	—	271.0	198.0	71.7	26.5	0.2	1.6	—
	1933	38.3	181.3	219.6	28.2	1.5	8.9	0.3	258.5	220.2	85.0	10.9	0.6	3.4	0.1
	1934	20.1	143.5	163.6	16.3	5.5	4.7	4.7	194.8	174.7	84.0	8.4	2.8	2.4	2.4
	1935	27.9	150.9	178.8	15.5	12.1	5.9	—	212.3	184.4	84.2	7.3	5.7	2.8	—

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[1]) Including non-collectivized area sown individually by members of Collective Farms.

Table 6a (Continued)

Productive Sown Area of the R.S.F.S.R.: According to Type of Crops, as of Harvests for 1934 and 1935

(Including State Farms, Collective Farms and individually-owned farms)

Republics, Regions and Territories of the R.S.F.S.R.	Year	In thousands of hectares									Per cent of total sown area				
		Cereals													
		Winter crops.	Spring crops	All cereal crops	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops	Total sown area	Of which: Spring crops	Cereals	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Regions of the R.S.F.S.R.															
Northern Territory . .	1934	286.6	660.2	946.8	88.7	91.0	91.4	—	1.217.9	931.3	77.7	7.3	7.5	7.5	—
	1935	308.9	678.9	987.9	95.7	101.4	106.5	—	1,291.4	982.5	76.5	7.4	7.9	8.2	—
Karelian A.S.S.R. . . .	1934	17.1	27.4	44.5	0.7	9.1	7.4	—	61.7	44.6	72.1	1.2	14.7	12.0	—
	1935	16.0	28.0	44.0	0.5	10.3	8.2	—	63.0	47.0	69.9	0.8	16.3	13.0	—
Leningrad Region . .	1934	459.6	760.0	1,219.6	200.1	277.4	239.5	—	1.936.6	1,477.0	63.0	10.3	14.3	12.4	—
	1935	476.0	777.4	1.253.4	194.3	301.0	292.1	0.4	2,041.2	1,565.2	61.4	9.5	14.8	14.3	0.0
Kalinin Region	1934	535.8	752.3	1,288.1	370.0	260.6	334.7	1.0	2,254.4	1,718.6	57.1	16.4	11.6	14.8	0.1
	1935	555.7	810.9	1,366.6	360.8	278.2	348.9	0.1	2,354.6	1,798.9	58.1	15.3	11.8	14.8	0.0
Western Region . . .	1934	1,056.9	1,269.6	2,326.5	425.1	459.7	345.0	8.7	3,565.0	2,508.1	65.3	11.9	12.9	9.7	0.2
	1935	1,040.7	1,282.2	2,322.9	404.8	547.5	351.3	25.0	3,651.5	2,610.8	63.3	11.1	15.0	9.6	0.7
Moscow Region . . .	1934	1,382.2	1,899.4	3.281.6	100.0	722.2	781.6	—	4,885.4	3,503.2	67.2	2.0	14.8	16.0	—
	1935	1,306.0	1,841.2	3,147.2	109.1	798.9	816.8	2.3	4,874.3	3,568.3	64.6	2.2	16.4	16.8	0.0

Ivanovo Region	1934	617.6	877.1	1,494.7	230.5	322.1	376.2	—	2,423.5	1,805.9	61.7	9.5	13.3	15.5	—
	1935	647.4	919.9	1,567.3	236.3	342.5	402.8	2.1	2,551.0	1.903.6	61.4	9.3	13.4	15.8	0.1
Gorky Territory	1934	1,186.0	1,448.3	2,634.3	105.7	355.7	215.1	—	3,310.8	2,124.8	79.6	3.2	10.7	6.5	—
	1935	1,181.2	1,454.9	2,634.1	101.5	379.2	274.0	1.1	3,391.9	2,210.7	77.7	3.0	11.2	8.1	0.0
Kirov Territory	1934	1,271.3	1,648.6	2,916.9	223.2	170.8	162.5	—	3,476.4	2,205.1	84.0	6.4	4.9	4.7	—
	1935	1.258.1	1,633.4	2,891.5	222.2	186.6	234.4	0.3	3,535.0	2,276.9	81.8	6.3	5.3	6.6	0 0
Tatar A.S.S.R.	1934	1,232.7	1,693.5	2,926.2	59.6	195.4	109.0	—	3,290.2	2,057.5	88.9	1.8	6.0	3.3	—
	1935	1,141.7	1,648.2	2,789.9	78.8	208.5	171.7	—	3.248.9	2,107.2	85.9	2.4	6.4	5.3	—
Kuibyshev Territory . .	1934	1,823.3	3,838.4	5,661.7	372.8	384.5	372.9	—	6,791.9	4,968.6	83.4	5 5	5.6	5.5	—
	1935	1,737.4	3,590.3	5,327.7	358.3	404 6	413.3	1.6	6.505.5	4,768.1	81.9	5.5	6.2	6.4	0.0
Saratov Territory	1934	1,145.5	2,861.7	4,007.2	304.7	110.7	142.6	—	4,565.2	3,419.7	87 8	6.7	2.4	3.1	—
	1935	1,192.6	2,928.0	4,120.6	319.9	146.7	179.0	0.5	4.766.7	3,574.1	86.4	6.7	3.1	3.8	0.0
Stalingrad Territory . . .	1934	896.5	2,338.8	3.235.3	314.1	127.5	43.3	—	3,720.2	2,823.7	87.0	8.4	3.4	1.2	—
	1935	951.9	2,211.7	3,163.6	293.6	165.2	82.8	—	3,705.2	2,753.3	85.4	7.9	4.5	2.2	—
Voronezh Region	1934	2.051.9	2,790.3	4,842.2	633.3	490.0	298.0	10.3	6,273.8	4,221.9	77.2	10.1	7.8	4.7	0.2
	1935	2.047.6	2,612.8	4,660.4	588.5	544.0	453.8	1.9	6,248.6	4,201.0	74.6	9.4	8.7	7.3	0.0
Kursk Region	1934	1,528.5	1.911.5	3,440.0	399.6	303.0	308.1	2.7	4,453.4	2,924.9	77.2	9.0	6 8	6.9	0.1
	1935	1,530.8	1,835.6	3,366.4	400.5	390.6	287.9	0.2	4,445.6	2,914 8	75.7	9.0	8.8	6.5	0.0
Azov-Black Sea Territory	1934	1,985.9	3.960.7	5,946.6	948.1	294.1	214.8	—	7,403.7	5,417.7	80.3	12.8	4.0	2.9	—
	1935	2,368.0	3,605.6	5,973.6	968.3	360.6	332.7	—	7,635.2	5.267.2	78.2	12.7	4.7	4.4	—
Northern Caucasus Territory	1934	1,188.0	1,958.3	3,146.3	434.4	175.6	180.3	—	3,936.6	2,748.6	79.9	11.0	4.5	4.6	—
	1935	1,401.3	1,713.1	3,114.4	423.7	204.9	241.5	4.9	3.989.4	2,588.1	78.1	10.6	5.1	6.1	0.1
Crimean A.S.S.R.	1934	479.3	447.4	926.7	50.4	30.9	54.6	—	1,062.6	583.3	87.2	4.7	2.9	5.2	—
	1935	510.8	375.2	886.0	55.9	37.3	63.4	0.1	1,042.7	531.9	85 0	5.3	3.6	6.1	0.0

Table 6a (Continued)

Republics, Regions and Territories of the R.S.F.S.R.	Year	In thousands of hectares									Per cent of total sown area				
		Cereals			Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops	Total sown area	Of which: Spring crops	Cereals	Industrial crops	Truck farm crops	Fodder and feed crops	Various other crops
		Winter crops	Spring crops	All cereal crops											
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Bashkir A.S.S.R.	1934	934.9	2,102.6	3,037.5	98.6	142.4	74.6	—	3,353.4	2,418.5	90.6	2.9	4.2	2.3	—
	1935	852.8	2,092.1	2,944.9	102.7	178.3	112.8	0.1	3,338.8	2,486.0	88.2	3.1	5.3	3.4	0.0
Orenburg Region	1934	651.7	2,197.0	2,848.7	203.9	70.1	52.4	—	3,175.1	2,523.4	89.7	6.4	2.2	1.7	—
	1935	617.9	2,196.9	2,814.8	175.3	91.9	64.7	0.4	2,147.1	2,529.2	89.4	5.6	2.9	2.1	0.0
Sverdlovsk Region . . .	1934	616.6	1,412.7	2,029.3	72.5	174.3	88.3	—	2,364.4	1,747.8	85.8	3.1	7.4	3.7	—
	1935	625.7	1,474.6	2,100.3	64.4	180.3	119.9	—	2,464.9	1,839.2	85.2	2.6	7.3	4.9	—
Cheliabinsk Region . .	1934	465.8	2,389.0	2,854.8	31.8	136.0	35.4	—	3,058.0	2,592.2	93.4	1.0	4.4	1.2	—
	1935	435.4	2,420.7	2,856.1	39.6	153.7	67.4	0.2	3,117.0	2,681.6	91.6	1.3	4.9	2.2	0.0
Kazakhstan A.S.S.R. . .	1934	374.2	3,980.2	4,354.4	315.8	127.4	110.2	3.8	4,911.6	4,537.4	88.7	6.4	2.6	2.2	0.1
	1935	328.5	4,326.7	4,655.2	301.0	150.0	118.3	—	5,224.5	4,896.0	89.1	5.8	2.9	2.2	—
Kara-Kalpak A.S.S.R. . .	1934	5.3	27.1	32.4	51.5	3.0	21.4	—	108.3	103.0	29.9	47.6	2.8	19.7	—
	1935	5.3	30.0	35.3	46.6	4.1	28.3	—	114.3	109.0	30.9	40.7	3.6	24.8	—
Kirghiz A.S.S.R.	1934	93.2	670.5	763.7	109.4	13.6	43.2	—	929.9	836.7	82.1	11.8	1.5	4.6	—
	1935	113.3	696.1	809.4	107.4	21.7	57.1	—	995.6	882.3	81.3	10.8	2.2	5.7	—
Omsk Region	1934	284.3	1,900.6	2,184.9	85.2	98.2	81.6	—	2,449.9	2,165.6	89.2	3.5	4.0	3.3	—
	1935	297.7	1,879.4	2,177.1	91.1	116.8	106.9	—	2,491.9	2,194.2	87.4	3.6	4.7	4.3	—
West Siberian Territory .	1934	435.5	5,459.6	5,895.1	261.4	285.2	142.1	—	6,583.8	6,148.3	89.5	4.0	4.3	2.2	—
	1935	468.1	5,285.4	5,753.5	236.6	310.0	206.1	—	6,506.2	6,038.1	88.4	3.6	4.8	3.2	—

Krasnoyarsk Territory . .	1934	202.5	1,271.5	1,474.0	48.4	52.5	29.4	—	1,604.3	1,401.8	91.9	3.0	3.3	1.8	—
	1935	189.6	1,282.1	1,471.7	41.3	67.5	42.3	—	1,622.8	1,433.2	90.7	2.5	4.2	2.6	—
East Siberian Territory .	1934	141.2	1,202.7	1,343.9	19.0	56.2	24.6	—	1,443.7	1,302.5	93.1	1.3	3.9	1.7	—
	1935	148.3	1,240.5	1,388.8	17.6	77.2	41.3	—	1,524.9	1,376.6	91.1	1,2	5.0	2.7	—
Yakut A.S.S.R.	1934	1.8	78.4	80.2	0.2	2.2	0,2	—	82.8	81.0	96.9	0.2	2.7	0.2	—
	1935	2 1	83.7	85.8	0.2	1.9	0.2	—	88.1	86.0	97.4	0.2	2.2	0.2	—
Far Eastern Territory . .	1934	32.5	778.8	811.3	78.0	90.0	11,2	3.3	993.8	961.3	81.6	7.8	9.1	1.1	0.4
	1935	24.3	835.9	860.2	88.4	106.3	19.6	0.7	1,075.2	1,050.9	80.0	8.2	9.9	1.8	0.1
Regions of the Ukrainian S.S.R.															
Kiev Region	1934	1,328.9	1,480.8	2,809.7	349.7	361.4	230.8	—	3,751.6	2,422.7	74.9	9.3	9.6	6.2	—
	1935	1,276.9	1,416.4	2,693.3	380.9	414.0	254.7	6.6	3,749.5	2,472.6	71.8	10.2	11.0	6.8	0.2
Chernigov Region . .	1934	748.1	929.4	1,677.5	170.2	237.5	144,3	19.0	2,248.5	1,500.4	74.6	7.6	10.6	6.4	0.8
	1935	736.6	880.5	1,617.1	185.7	279.1	135.6	23.2	2,240.7	1,504.1	72.2	8.3	12.5	6.0	1.0
Vinnitsa Region	1934	1,033.4	1,397.5	2,430.9	333.4	238.7	247.0	—	3,250.0	2,216.6	74.8	10.3	7.3	7.6	—
	1935	1,079.9	1,281.9	2,361.8	334.2	253.5	282,3	0.2	3,232.0	2,152.1	73.1	10.3	7.8	8.8	0.0
Kharkov Region	1934	1,365.5	2,003.5	3,369.0	430.6	306.8	308.3	—	4,414.7	3,049.2	76.3	9.8	6.9	7.0	—
	1935	1,589 1	1,687.8	3,276.9	439.0	363.3	402.3	1.5	4,483.0	2,893.9	73.1	9.8	8.1	9.0	0.0
Dniepropetrovsk Region .	1934	1,654.8	2,147.9	3,802.7	337.7	246.8	229.4	3.6	4,620.2	2,965.4	82.3	7.3	5.3	5.0	0.1
	1935	1,926.4	1,688.7	3,615.1	331.0	274.2	321.2	0.3	4,541.8	2,615.4	79.6	7.3	6.0	7.1	0.0
Odessa Region	1934	1,693.5	1,691.8	3,385.3	412.8	193.0	212.7	3.8	4,207.6	2,514.1	80.5	9.8	4.6	5.0	0.1
	1935	1,756.3	1,492.4	3 248.7	412.3	208.9	254.2	0.5	4,124.6	2,368.3	78.8	10.0	5.0	6.2	0.0
Donetz Region	1934	728.7	1,578.3	2,307.0	190.4	301.5	204.8	—	3,003.7	2,275.0	76.8	6.3	10.1	6.8	—
	1935	766.1	1,305.2	2,071.3	181.8	300.5	268.0	—	2,821.6	2,055,5	73.4	6 5	10.6	9.5	—
Moldavian A.S.S.R. . . .	1934	214.0	204.1	418.1	47.8	33.0	31,5	—	530.4	316.4	78.8	9.0	6.2	6.0	—
	1935	216.8	193.2	410.0	46.0	34.9	27.6	0.4	518.9	302.1	79.0	8.9	6.7	5.3	0.1

Table 7

Area Sown to Cereals and Leguminous Crops, as of 1928-1935: By Republics, Regions and Territories

(In thousands of hectares)

Republics, Regions and Territories	Ye r	Winter crops			Spring cops								
		Rye	Wheat	Barley	Rye	Wheat	Barley	Oats	Buck-wheat	Millet	Maize	Leguminous crops (beans, peas, lentils, kidney beans, etc.)	Other cereals
A	B	1	2	3	4	5	6	7	8	9	10	11	12
U. S. S. R.	1928	24,118.2	6,178.0	388.3	528.6	21,552.2	6,908.5	17,245.6	2,924.5	5,693.4	4,494.2	966.7	1,174.1
	1929	24,413.6	6,554.5	429.3	520.8	23,173.2	7,655.7	18,880.8	2,816.5	5,609.9	3,542.9	1,042.6	1,372.0
	1930	28,423.1	10,064.2	401.2	436.5	23,681.1	7,027.3	17,891.4	1,979.1	5,065.5	3,716.7	1,915 6	1,159.5
	1931	27,135.9	11,319.3	343.8	509.8	25,552.4	6,510.0	17,476.4	2,176.4	5,582.9	4.023.2	2,166.1	1,609.6
	1932	25,774.6	11.814.7	345.4	415.4	22,689.2	6,498.6	15,423.4	1,661.8	7,677.6	3,680.8	2,128.4	1,589.8
	1933	25,017.4	10,806.4	375.5	364.7	22,434.5	6,881.5	16,682.7	2,038.0	8,850.1	3,956.7	2,268.3	1,878.3
	1934	23,663.4	10,788.9	395.3	363.0	24,458.0	8,086.6	18,011.0	2,104.6	8,243 1	3,679.6	2.754.4	2,129.4
	1935	23,120.9	12,457.3	466.0	354.2	24,599.0	8,276.9	18,320.3	2,096.9	5,509.1	3,236.7	2,920.7	2,082.2
I. R. S. F. S. R. . . .	1928	19,289.2	3,170.6	93.3	514.8	17,605.1	2,673.4	14,427.7	1,733.6	4.037.6	1,569.9	665.3	716.6
	1929	18,781.4	3,586.3	113.7	504.7	19,067.8	3,114.9	15,696.8	1,659.9	4,044 8	1,419.9	763.6	851.0
	1930	21,469.1	4,429.8	80.8	421.9	18,945.2	3,041.8	14,871.3	1,244.5	4,477.9	1,587.3	1,317.2	748.2
	1931	20,730.5	4,535.1	73.1	494.0	22,069.0	2,833 1	14,975.1	1,380.5	5,074.8	1,901.6	1,594.5	1,222.1
	1932	20,599.4	4,646.9	71.5	401.9	20,317 5	3,160.8	13,239.0	1,163.8	6,746.9	1,878 7	1,670.9	1,162.2
	1933	19,350.5	4,181.4	100.2	340.6	19,984.5	3,435.5	14,341.9	1,204.8	7 514.0	1,976.2	1,733.9	1,259.2
	1934	18,722.0	4,547.8	114.4	340.6	21,699.7	4,060.1	15,494.5	1,315.2	6,266.3	1,901.0	2,117.0	1,419.8
	1935	18,357.4	5,307.8	115.9	336.4	22,161.1	4,373.0	15,919.1	1,274.6	4,377 3	1,693.5	2,234.0	1,422.4
II. Ukrainian S.S.R. . .	1928	3,564.5	1,601.3	0.6	—	3,134.4	3,712.0	2,239.0	997.5	1,591.5	2,378.5	233.8	205 2
	1929	4,356.2	1,535.7	0.1	0.2	3,168.4	3,995.3	2,542.7	963.1	1,501.7	1,578.4	220.9	324.0
	1930	5,639.7	4,098.2	—	—	3,353.0	3,368.0	2,335.0	602.0	560.0	1.691.0	496.0	169.0
	1931	5,037.8	5,331.0	6.0	—	2,346.8	2,998.7	1,889.1	625.7	464.1	1,683.2	475.1	240.1
	1932	3,861.0	5,743.4	—	—	1,205.0	2,505.0	1,563.0	338.0	860.0	1 386.0	356.0	306.8
	1933	4,520.5	5,456.3	—	0.5	1,227.1	2,608.3	1,789.4	669.5	1,224.7	1,556.6	421.5	389.3
	1934	3,746.0	5,020.9	—	0.2	1,479.1	3,186.5	1,912.1	635.9	1,873.9	1,359.4	518.9	467.3
	1935	3.659.8	5,688.3	—	0.1	1.215.8	3,054.1	1 834.4	688.9	1,057.1	1,126.6	556.7	412.4

III. White Russian S.S.R.	1928	1,261.3	29.6	—	12.0	65.4	260.7	574.8	193.4	36.9	—	35.6	49.2
	1929	1,272.4	30.2	—	14.0	72.6	250.0	636.1	193.5	33.7	—	22.0	17.5
	1930	1,303.4	30.3	—	14.6	73.7	239.6	679.7	132.6	22.0	—	73.5	—
	1931	1,367.6	32.0	—	15.0	40.0	261.7	606.4	170.2	30.0	—	64.0	20.0
	1932	1,313.0	29.0	—	12.5	81.9	297.6	613.2	160.0	39.4	—	68.0	12.4
	1933	1,144.4	30.6	—	23.6	91.7	315.9	538.7	163.7	51.5	—	58.4	67.6
	1934	1,191.8	59.1	—	22.0	137.5	315.3	588.8	153.5	36.2	—	55.6	57.3
	1935	1,092.6	65.2	—	15.8	139.1	297.9	550.7	133.4	25.1	—	57.7	64.8
IV. Transcaucasian S.F.S.R.	1928	3.2	846.5	204.7	1.8	175.0	115.5	3.3	—	9.3	436.0	4.5	67.8
	1929	3.6	890.3	207.3	1.9	183.0	154.0	5.1	—	9.7	456.4	5.8	65.4
	1930	10.9	961.2	231.4	—	189.8	166.0	5.4	—	5.6	438.4	28.9	56.4
	1931	—	893.0	228.1	0.8	186.1	169.5	5.8	—	11.1	365.5	18.4	60.3
	1932	1.2	866.4	229.9	1.0	229.0	206.9	8.2	—	29.7	389.3	25.6	65.7
	1933	2.0	750.6	196.9	—	200.5	222.6	12.7	—	32.9	410.8	27.0	60.2
	1934	3.6	782.7	200.0	0.2	208.8	243.3	15.6	—	30.6	401.3	30.7	73.9
	1935	11.1	813.2	230.9	0.4	206.3	234.7	15.9	—	28.6	399.4	38.6	73.7
V. Uzbek S.S.R.	1928	—	326.1	49.3	—	320.2	72.5	0.7	—	11.0	81.8	18.0	112.5
	1929	—	302.6	58.6	—	398.4	88.2	—	—	15.0	65.5	19.4	95.1
	1930	—	421,9	67.1	—	601.0	60.8	—	—	—	—	—	172.8
	1931	—	248.0	16.0	—	570.8	110.0	—	—	2.9	60.4	9.1	51.6
	1932	—	248.0	19.0	—	530.4	229.0	—	—	1.6	11.8	2.5	37.6
	1933	—	264.5	44.8	—	646.6	190.4	—	—	13.9	11.2	14.0	84.3
	1934	—	241.3	44.5	—	644.5	191.3	—	—	27.5	15.1	18.6	89.7
	1935	—	412.5	77.9	—	568.6	211.7	—	—	11.9	14.7	15.3	84.6
VI. Turkmenian S.S.R. . .	1928	—	93.0	7.5	—	40.6	2.8	—	—	2.6	25.8	3.3	2.4
	1929	—	99.9	9.3	—	44.5	3.1	—	—	2.1	22.7	3.5	1.5
	1930	—	95.8	11.9	—	56.0	18.0	—	—	—	—	—	6.0
	1931	—	72.2	6.6	—	49.7	5.0	—	—	—	9.5	5.0	7.5
	1932	—	75.0	8.0	—	61.0	17.6	—	—	—	15.0	5.4	0.5
	1933	—	56.1	15.4	—	47.2	15.7	—	—	1.1	—	2.7	11.7
	1934	—	69.2	17.3	—	51.7	15.1	—	—	0.7	—	3.7	13.0
	1935	—	76.4	18.1	—	63.8	19.2	—	—	1.9	0.3	4.6	16.0
VII Tadjik S.S.R. . . .	1928	—	110.9	32.9	—	211.5	41.6	0.1	—	4.5	2.2	6.2	20.4
	1929	—	109.5	40.3	—	238.5	50.2	0.1	—	2.9	—	7.4	17.5
	1930	—	27.0	10.0	—	462.4	133.1	—	—	—	—	—	7.1
	1931	—	208.0	14.0	—	290.0	132.0	—	—	—	3.0	—	8.0
	1932	—	206.0	17.0	—	264.4	81.7	—	—	—	—	—	4.6
	1933	—	66.9	18.2	—	236.9	93.1	—	—	12.0	1.9	10.8	6.0
	1934	—	67.9	19.1	—	236.7	75.0	—	—	7.9	2.8	9.9	8.4
	1935	—	93.9	23.2	1.5	244.3	86.3	0.2	—	7.2	2.2	13.8	8.3

Table 7 (Continued)

Republics, Regions and Territories	Year	Winter crops			Spring crops								
		Rye	Wheat	Barley	Rye	Wheat	Barley	Oats	Buck-wheat	Millet	Maize	Leguminous crops (beans, peas, lentils, kidney beans, etc.)	Other cereals
A	B	1	2	3	4	5	6	7	8	9	10	11	12
Regions of the R. S. F. S. R.													
Northern Territory . . .	1934	283.5	3.1	—	2.0	63.3	192.1	354.1	—	—	—	37.2	11.5
	1935	301.2	7.7	—	3.1	88.0	187.9	348.7	—	—	—	38.7	12.5
Karelian A.S.S.R.	1934	17.1	—	—	0.5	0.1	6.2	18.6	—	—	—	1.1	0.9
	1935	15.9	0.1	—	0.8	0.3	6.5	18.2	—	—	—	1.4	0.8
Leningrad Region . . .	1934	395.9	63.7	—	15.3	69.5	132.9	440.2	4.2	—	—	61.6	36.3
	1935	386.1	89.9	—	13.3	103.3	122.0	430.3	3.8	—	—	66.4	38.3
Kalinin Region	1934	479.4	56.4	—	9.1	38.8	125.4	488.4	7.3	—	—	60.7	22.6
	1935	479.7	76.0	—	10.0	68.7	130.2	505.2	7.7	—	—	65.4	23.7
Western Region	1934	1,002.0	54.9	—	15.7	85.0	160.9	683.7	152.0	61.2	—	28.6	82.5
	1935	971.7	69.0	—	12.6	134.1	164.4	669.8	149.3	21.9	—	41.8	88.3
Moscow Region . . .	1934	1,173.8	208.4	—	2.8	105.4	10.1	1,190.0	131.8	170.4	—	84.9	204.0
	1935	1,058.8	247.2	—	3.0	210.3	12.6	1,082.2	136.3	120.9	—	86.6	189.3
Ivanovo Region	1934	486.5	131.1	—	8.4	87.2	73.4	576.6	20.4	5.0	—	44.4	61.7
	1935	503.0	144.4	—	8.6	134.2	74.6	567.4	26.3	5.8	—	40.3	62.7
Gorky Territory	1934	1,159.4	26.6	—	5.8	209.3	33.1	870.3	21.7	64.4	—	118.3	125.4
	1935	1,127.7	53.5	—	5.5	273.8	31.3	826.3	23.7	68.2	—	116.7	109.4
Kirov Territory	1934	1,260.6	10.7	—	2.3	158.6	220.0	1,125.4	35.0	5.6	—	62.7	39.0
	1935	1,237.3	20.8	—	2.5	241.8	221.2	1,037.7	19.1	2.4	—	61.2	47.5
Tatar A.S.S.R.	1934	1,218.6	14.1	—	—	435.9	27.8	602.1	66.8	133.5	—	343.7	83.7
	1935	1,119.3	22.4	—	—	479.0	30.0	600.6	64.7	90.1	—	315.0	68.8
Kuibyshev Territory . .	1934	1,659.7	163.6	—	—	1.433.4	18.3	1,097.3	38.9	713.4	0.5	397.2	139.4
	1935	1,595.0	142.4	—	—	1.495.1	36.2	1,030.8	33.3	479.6	0.9	377.5	136.9

Saratov Territory	1934	1,069.5	76.0	—	—	1,613.0	138.0	420.2	3.0	530.6	3.6	142.9	10.4
	1935	1,127.8	64.8	—	—	1,675.4	160.2	441.4	5.8	443.9	17.2	165.8	18.3
Stalingrad Territory . . .	1934	827.7	68.8	—	0.7	1,639.8	144.1	105.2	0.1	406.4	24.0	4.4	14.1
	1935	898.5	53.4	—	0.1	1,464.3	219.2	173.4	0.4	299.4	31.2	5.3	18.4
Voronezh Region	1934	1,687.3	364.6	—	—	423.7	131.6	784.1	77.2	919.3	39.9	288.5	126.0
	1935	1,625.0	422.6	—	—	506.7	136.4	804.2	94.9	595.5	61.3	296.5	117.3
Kursk Region	1934	1,245.9	282.6	—	—	73.1	124.8	644.3	274.0	447.7	7.4	118.7	221.5
	1935	1,223.0	307.8	—	—	186.3	171.4	703.9	242.9	218.0	11.6	112.2	189.3
Azov-Black Sea Territory	1934	726.0	1,250.3	9.6	—	1,455.4	1,050.1	241.3	1.2	393.9	745.6	51.6	21.6
	1935	773.0	1.582.1	12.9	—	1,348.3	1,017.0	263.0	2.1	214.8	684.9	50.1	25.4
Northern Caucasus Territory	1934	78.9	1,011.7	97.4	—	39.9	416.0	224.5	5.7	318.9	907.1	27.8	18.4
	1935	74.1	1.237.4	89.8	0.6	36·7	425.2	245.0	5.3	211.7	741.3	30.0	17.3
Crimean A.S.S.R.	1934	3.0	469.9	6.4	—	—	219.4	57.8	—	34.5	107.1	5.7	22.9
	1935	1.9	497.9	11.0	—	—	209.8	58.3	—	9.6	71.6	7.0	18.9
Bashkir A.S.S.R.	1934	934.0	0.9	—	—	953.9	11.0	647.1	95.2	299.5	—	68.2	27.7
	1935	851.6	1.2	—	—	983.8	17.5	655.8	97.9	215.1	—	92.0	30.0
Orenburg Region	1934	632.9	18.8	—	—	1,541.0	48.0	293.2	1.8	298.7	5.2	6.9	2.2
	1935	607.9	8.4	1.6	—	1,546.2	69.7	334.2	2.5	229.6	3.4	10.5	0.8
Sverdlovsk Region . . .	1934	615.7	0.9	—	1.2	380.2	150.8	680.3	100.6	9.2	—	60.5	30.2
	1935	624.8	0.9	—	1.5	421.3	152.5	698.3	72.9	1.4	—	82.6	44.6
Cheliabinsk Region . . .	1934	465.2	0.6	—	0.5	1,517.5	33.2	555.2	24.9	209.2	—	39.1	9.4
	1935	434.8	0.5	0.1	0.9	1,473.2	40.1	687.2	17.1	78.9	—	84.5	38.8
Kazakhstan A.S.S.R. . .	1934	205.2	168.0	1.0	—	2,592.3	147.1	418.9	1.4	774.7	19.2	7.7	18.9
	1935	190.5	138.0	—	0.4	2,784.8	228.7	512.9	3.5	746.9	23.8	6.1	19.6
Kara-Kalpak A.S.S.R. . .	1934	—	5.3	—	—	5.7	2.7	—	—	1.2	—	0.7	16.8
	1935	—	5.2	0.1	—	8.9	3.0	—	—	2.7	—	1.0	14.4
Kirghiz A.S.S.R.	1934	—	93.2	—	—	389.1	138.0	67.2	—	36.1	33.3	1.6	5.2
	1935	2.4	110.5	0.4	0.1	377.7	164.6	82.7	0.4	24.3	37.2	2.3	6.8
Omsk Region	1934	284.0	0.3	—	4.8	1,188.5	56.5	486.6	34.8	91.2	—	28.6	9.6
	1935	297.3	0.4	—	4.9	1,126.2	76.0	550.6	26.3	33.3	—	44.6	17.5
West Siberian Territory .	1934	432.3	3.2	—	5.3	3,672.3	80.5	1,308.8	78.5	265.1	—	11.1	38.0
	1935	464.8	3.3	—	4.3	3,402.1	93.3	1.382.3	110.6	228.6	—	14.6	49.6
Krasnoyarsk Territory . .	1934	202.4	0.1	—	13.7	691.7	50.6	450.4	20.5	36.5	—	5.1	3.0
	1935	189.6	—	—	7.9	684.5	52.3	490.5	26.3	10.9	—	5.9	3.8
East Siberian Territory .	1934	141.2	—	—	219.7	443.1	84.8	362.7	61.5	23.9	—	6.7	0.3
	1935	148.3	—	—	222.4	484.4	86.9	374.8	50.2	11.9	—	8.5	1.4

Table 7 (Continued)

Republics, Regions and Territories	Year	Winter crops			Spring crops								
		Rye	Wheat	Barley	Rye	Wheat	Barley	Oats	Buck-wheat	Millet	Maize	Leguminous crops (beans, peas, lentils, kidney beans, etc.)	Other cereals
A	B	1	2	3	4	5	6	7	8	9	10	11	12
Yakut A.S.S.R.	1934	1.8	—	—	28.1	20.0	21.5	8.8	—	—	—	—	—
	1935	2.1	—	—	30.0	22.5	21.8	9.4	—	—	—	—	—
Far Eastern Territory	1934	32.5	—	—	4.7	373.0	11.5	291.2	56.7	16.2	8.1	0.8	16.6
	1935	24.3	—	—	3.9	399.2	11.0	334.0	51.3	11.9	9.1	3.5	12.0
Regions of the Ukrainian S. S. R.													
Kiev Region	1934	741.0	587.9	—	0.2	17.0	340.1	457.6	179.4	230.9	32.8	131.5	91.3
	1935	693.3	583.6	—	0.1	16.5	335.9	440.2	190.8	160.9	43.1	157.0	71.9
Chernigov Region	1934	658.5	89.6	—	—	44.2	123.7	261.1	209.2	127.7	—	55.8	107.7
	1935	632.2	104.4	—	—	52.2	129.4	284.2	215.0	58.8	—	60.8	80.1
Vinnitsa Region	1934	466.5	566.9	—	—	5.3	369.5	348.7	129.5	115.2	134.9	208.5	85.9
	1935	488.1	591.8	—	—	3.2	353.1	333.6	152.4	70.2	121.5	181.5	66.4
Kharkov Region	1934	841.6	523.9	—	—	461.7	419.6	294.4	105.6	403.0	143.3	57.3	118.6
	1935	880.7	708.4	—	—	378.9	420.4	294.9	104.7	164.6	169.2	57.8	97.3
Dniepropetrovsk Region	1934	373.0	1,281.8	—	—	333.0	741.0	200.4	2.5	383.6	444.5	26.1	16.8
	1935	358.6	1,567.8	—	—	255.6	644.2	182.1	4.3	236.7	298.2	34.0	33.6
Odessa Region	1934	186.5	1,507.0	—	—	150.6	716.6	181.4	6.6	316.3	283.6	14.3	22.4
	1935	151.5	1,604.8	—	—	85.5	738.8	153.6	14.3	190.4	255.1	25.4	29.3
Donetz Region	1934	440.3	288.4	—	—	456.1	406.0	153.5	2.6	289.5	229.2	19.2	22.2
	1935	419.3	346.8	—	—	416.7	362.9	131.6	6.9	169.3	153.2	33.1	31.5
Moldavian A.S.S.R.	1934	38.6	175.4	—	—	11.2	70.0	15.0	0.5	7.7	91.1	6.2	2.4
	1935	36.1	180.7	—	—	7.2	69.4	14.2	0.5	6.2	86.9	7.1	2.3

Table 8

Area Sown to Cotton, as of 1928-1935

Republics, Regions and Territories	In thousands of hectares					Share of separate Republics, Regions and Territories (per cent of total for the U.S.S.R.)				
	1928	1932	1933	1934	1935	1928	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10
U. S. S. R.	971.3	2,172.0	2,051.6	1,940.6	1.953.5	100.0	100.0	100.0	100 0	100.0
Including new Regions in the R.S.F.S.R. and the Ukrainian S.S.R., recently opened up for the culture of cotton	2.3	429.5	385.4	362.3	370.1	0.3	19 8	18.8	18.7	18.9
R. S. F. S. R.	111.7	509.2	476.2	436.0	438.2	11.5	23.4	23.2	22.5	22.4
Ukrainian S S.R.	—	181.0	158.0	156.3	156.7	—	8.3	7.7	8.1	8.0
Transcaucasian S.F.S.R.	131.6	250.6	235.8	222.1	217.0	13.5	11.6	11.5	11.4	11.1
a) Azerbaidjan S.S.R.	111.1	203.8	192.0	195.3	193.4	11.4	9.4	9.4	10.1	9.9
b) Armenian S.S.R.	14 3	27.4	25.2	8.2	5.6	1.5	1.3	1.2	0 4	0.3
c) Georgian S.S.R.	6.2	19.4	18.6	18.6	18.0	0.6	0.9	0.9	0 9	0.9
Uzbek S.S.R.	563.9	932.9	916.2	882.6	885 2	58.1	43.0	44.7	45.5	45.4
Turkmenian S.S.R.	111.9	178.7	158.6	151.9	154.3	11.5	8 2	7.7	7.8	7.9
Tadjik S.S.R.	52.2	119.6	106.8	91 7	102.1	5.4	5.5	5.2	4.7	5.2
Regions of the R.S.F.S.R.										
Stalingrad Territory	0.6	2.5	8.1	5.1	5.0	0.1	0.1	0.4	0.3	0.3
Azov-Black Sea Territory	1.7	214.0	187.3	33.9	36.5	0.2	9.9	9.1	1.7	1.8
Northern Caucasus Territory				139.2	141.9				7.2	7.3
Crimean A.S.S.R.	—	32.0	32.0	27.8	30.0	—	1.5	1.6	1.4	1.5
Kazakhstan A.S.S.R.	44.7	133.8	125.4	115.6	113.0	4 6	6.2	6.1	6.0	5.8
Kara-Kalpak A.S.S.R.	24.6	56.9	52.2	50.0	45.8	2.5	2.6	2.5	2.6	2.3
Kirghiz A.S.S.R.	40.1	70,0	71.2	64.4	65.9	4.1	3.1	3 5	3.3	3.4
Voronezh Region	—	—	—		0.1	—	—	—	—	0.0

Table 9

Area Sown to Sugar Beet (for Refineries), as of 1928-1935

Republics, Regions and Territories	In thousands of hectares					Share of separate Republics, Regions and Territories (per cent of total for the U.S.S.R.)				
	1928	1932	1933	1934	1935	1928	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10
U. S. S. R.	769.7	1,537.8	1,210.7	1.183 3	1,225.1	100.0	100.0	100.0	100 0	100.0
R. S. F. S. R.	120.1	359.8	344.7	355.9	371.2	15.6	23.4	28.4	30.1	30.3
Ukrainian S.S.R.	647.1	1,173 8	861.5	821 7	848.0	84.1	76.4	71.2	69.4	69.2
Transcaucasian S.F.S R.	—	4.2	4.5	5.7	5.9	—	0.2	0.4	0.5	0.5
Uzbek S.S.R.	2.5	—	—	—	—	0.3	—	—	—	—
Regions of the R.S.F.S.R.										
Western Region	2.7	7.2	6.4	6.0	5.7	0.4	0.5	0.5	0.5	0.5
Moscow Region	5.5	12.6	9.5	9.7	10.4	0.7	0.8	0.8	0.8	0.8
Bashkir A.S.S.R.	—	0.8	0.2	1.3	0.7	—	0.0	0.0	0.1	0.1
Kuibyshev Territory	—	2 0	1.3	1.7	2.4	—	0.1	0.1	0.1	0.2
Kursk Region	106.6	291.4	278,7	178.0	179.8	13.8	19.0	23.0	15.1	14.7
Voronezh Region				98.7	99 9				8.4	8.2
Saratov Territory	—	0.9	1.1	1.2	5.3	—	0.0	0.1	0.1	0.4
Azov-Black Sea Territory	5.3	20.7	20.7	20.8	18.6	0.7	1.4	1.7	1.8	1 5
Northern Caucasus Territory				0.4	0.1				0.0	0.0
Kazakhstan A.S.S.R.	—	—	3.9	7.4	8.6	—	—	0.3	0.6	0.7
Kirghiz A.S.S.R.	—	9.7	7.4	9.6	11.6	—	0.6	0 6	0.8	0.9
West Siberian Territory	—	12.0	13.3	18.0	23.4	—	0.8	1.1	1.5	1.9
Far Eastern Territory	—	2 5	2.2	3.1	4 5	—	0.2	0.2	0.3	0.4
Ivanovo Region	—	—	—	—	0.1	—	—	—	—	0.0
Orenburg Region	—	—	—	—	0.1	—	—	—	—	0.0

Table 10

Area Sown to Flax, as of 1934 and 1935

Republics, Regions and Territories	In thousands of hectares		Per cent of total for the U.S.S.R.	
	1934	1935	1934	1935
A	1	2	3	4
U. S. S. R.	**2,355.9**	**2,330.1**	**100.0**	**100.0**
I. **R.S.F.S.R.** *	1,940.0	1,879.1	82.3	80.6
Northern Territory	87.2	93.7	3.7	4.0
Karelian A.S.S.R.	0.7	0.4	0.0	0.0
Leningrad Region	197.3	191.8	8.4	8.2
Kalinin Region	369.2	359.3	15.7	15.4
Western Region	354.1	330.2	15.0	14.2
Moscow Region	60.9	61.8	2.6	2.6
Ivanovo Region	218.6	224.2	9.3	9.6
Gorky Territory	74.3	72.4	3.2	3.1
Kirov Territory	217.2	216.3	9.2	9.3
Tatar A.S.S.R.	23.5	34.0	1.0	1.5
Kuibyshev Territory	28.9	24.8	1.2	1.1
Saratov Territory	1.1	0.5	0.0	0.0
Stalingrad Territory	12.2	8.4	0.5	0.4
Voronezh Region	16.8	11.8	0.7	0.5
Kursk Region	8.6	6.7	0.4	0.3
Azov-Black Sea Territory	2.2	2.7	0.1	0.1
Northern Caucasus Territory	7.3	6.8	0.3	0.3
Crimean A.S.S.R.	6.4	5.2	0.3	0.2
Bashkir A.S.S.R.	7.4	8.3	0.3	0.4
Orenburg Region	2.0	1.6	0.1	0.1
Sverdlovsk Region	67.1	60.0	2.8	2.6
Cheliabinsk Region	4.7	5.7	0.2	0.2
Kazakhstan A.S.S.R.	1.7	1.8	0.1	0.1
Kirghiz A.S.S.R.	8.5	6.7	0.4	0.3
Omsk Region	38.7	41.0	1.6	1.7
West Siberian Territory	86.0	70.4	3.6	3.0
Krasnoyarsk Territory	22.5	19.0	0.9	0.8
East Siberian Territory	6.4	6.9	0.3	0.3
Far Eastern Territory	8.5	6.7	0.4	0.3
II. **Ukrainian** S.S.R.	95.7	138.0	4.0	5.9
Kiev Region	32.8	62.5	1.4	2.7
Chernigov Region	21.2	31.5	0.9	1.3
Vinnitsa Region	0.1	0.1	0.0	0.0
Kharkov Region	0.7	1.3	0.0	0.1
Dniepropetrovsk Region	15.0	13.9	0.6	0.6
Odessa Region	6.9	6.9	0.3	0.3
Donetz Region	19.0	21.8	0.8	0.9
III. **White Russian S.S.R.**	248.8	247.3	10.6	10.6
IV. **Transcaucasian S.F.S.R.**	15.8	13.9	0.7	0.6
Azerbaidjan S.S.R.	4.6	3.3	0.2	0.1
Georgian S.S.R.	1.4	1.3	0.1	0.1
Armenian S.S.R.	9.8	9.3	0.4	0.4
V. **Uzbek S.S.R.**	29.9	24.9	1.3	1.1
VI. **Tadjik S.S.R.**	25.7	26.9	1.1	1.2

Table 11

Area Sown to Sunflower, as of 1934 and 1935

Republics, Regions and Territories	In thousands of hectares		Per cent of total for the U S.S.R.	
	1934	1935	1934	1935
A	1	2	3	4
U. S. S. R.	**3.500.1**	**3,309.4**	**100.0**	**100.0**
I. R.S.F.S.R.	2,671.6	2,514.3	76.3	76.0
Moscow Region	—	0.7	—	0.0
Tatar A.S.S.R.	11.3	13.5	0.3	0.4
Kuibyshev Territory	231.9	220.6	6.6	6.7
Saratov Territory	260.3	262.7	7.4	7.9
Stalingrad Territory	155.0	133.0	4.4	4.0
Voronezh Region	436.7	373.6	12.5	11.3
Kursk Region	91.2	80.5	2.6	2.4
Azov-Black Sea Territory	714.4	711.7	20.5	21.6
Northern Caucasus Territory	246.8	219.6	7.1	6.6
Crimean A.S.S.R.	4.9	8.7	0.1	0.3
Bashkir A.S.S.R.	69.0	68.6	2.0	2.1
Orenburg Region	194.0	160.1	5.5	4.8
Cheliabinsk Region	19.0	27.7	0.5	0.8
Kazakhstan A.S.S.R.	131.5	124.1	3.8	3.7
Kirghiz A.S S.R.	—	1.7	—	0.1
Omsk Region	20.7	23.0	0.6	0.7
West Siberian Territory	77.2	74.1	2.2	2.2
Krasnoyarsk Territory	1.9	1.9	0.0	0.1
East Siberian Territory	—	0.2	—	0.0
Far Eastern Territory	5.8	8.3	0.2	0.3
II. Ukrainian S.S.R.	**815.9**	**779.8**	**23.3**	**23.5**
III. Transcaucasian S.F.S.R.	**12.6**	**15.2**	**0.4**	**0.5**
IV. Uzbek S.S.R.	**—**	**0.1**	**—**	**0.0**

Table 12

Area Planted to Potatoes, as of 1934 and 1935

Republics, Regions and Territories	In thousands of hectares		Per cent of total for the U.S.S.R.	
	1934	1935	1934	1935
A	1	2	3	4
U. S. S. R.	**6,130.4**	**7,375.6**	**100.0**	**100.0**
I. R.S.F.S.R.	4,489.0	5,354.8	73.2	72.6
Northern Territory	78.5	87.3	1.3	1.2
Karelian A.S.S.R.	7.6	8.8	0.1	0.1
Leningrad Region	212.3	236.6	3.5	3.2
Kalinin Region	223.4	243.8	3.6	3.3
Western Region	390.5	491.9	6.4	6.7
Moscow Region	602.1	676.6	9.8	9.2
Ivanovo Region	282.0	303.0	4.6	4.1
Gorky Territory	321.2	343.5	5.3	4.7
Kirov Territory	145.9	164.0	2.4	2.2
Tatar A.S.S.R.	173.4	184.7	2.8	2.5
Kuibyshev Territory	308.5	340.9	5.0	4.6
Saratov Territory	55.3	81.6	0.9	1.1
Stalingrad Territory	31.5	47.3	0.5	0.6
Voronezh Region	386.4	449.0	6.3	6.1
Kursk Region	228.3	326.3	3.8	4.5
Azov-Black Sea Territory	87.3	143.4	1.4	1.9
Northern Caucasus Territory	64.2	91.8	1.1	1.2
Crimean A.S.S.R.	7.0	9.7	0.1	0.1
Bashkir A.S.S.R.	116.2	154.1	1.9	2.1
Orenburg Region	27.1	55.7	0.4	0.8
Sverdlovsk Region	138.3	147.7	2.3	2.0
Cheliabinsk Region	103.1	122.8	1.7	1.7
Kazakhstan A.S.S.R.	56.1	90.6	0.9	1.2
Kara-Kalpak A.S.S.R.	0.5	0.5	0.0	0.0
Kirghiz A.S.S.R.	6.5	11.6	0.1	0.2
Omsk Region	81.4	101.3	1.3	1.4
West Siberian Territory	216.6	250.4	3.5	3.4
Krasnoyarsk Territory	36.1	53.9	0.6	0.7
East Siberian Territory	42.5	62.3	0.7	0.8
Yakut A.S.S.R.	1.9	1.6	0.1	0.0
Far Eastern Territory	57.3	72.1	0.9	1.0
II. Ukrainian S.S.R.	958.6	1,278.2	15.7	17.3
III. White Russian S.S.R.	631.0	670.4	10.3	9.1
IV. Transcaucasian S.F.S.R.	41.6	49.7	0.7	0.7
V. Uzbek S.S.R.	6.3	16.9	0.1	0.2
VI. Turkmenian S.S.R.	1.7	1.5	0.0	0.0
VII. Tadjik S.S.R.	2.2	4.1	0.0	0.1

Table 13

Area Planted and Sown to Vegetable Crops, as of 1934 and 1935

Republics, Regions and Territories	In thousands of hectares		Per cent of total for the U.S.S.R.	
	1934	1935	1934	1935
A	1	2	3	4
U. S. S. R.	**2,127.4**	**1,898.6**	**100.0**	**100.0**
I. R.S.F.S.R.	1,158.3	1,086.3	54.4	57.2
Northern Territory	12.5	14.1	0.6	0.7
Karelian A.S.S.R.	1.5	1.5	0.1	0.1
Leningrad Region	65.1	64.4	3.1	3.4
Kalinin Region	37.2	34.4	1.7	1.8
Western Region	69.2	55.6	3.3	2.9
Moscow Region	120.1	122.3	5.5	6.5
Ivanovo Region	40.1	39.5	1.9	2.1
Gorky Territory	34.5	35.7	1.6	1.9
Kirov Territory	24.9	22.6	1.2	1.2
Tatar A.S.S.R.	22.0	23.3	1.0	1.2
Kuibyshev Territory	61.8	46.5	2.9	2.5
Saratov Territory	27.4	26.4	1.3	1.4
Stalingrad Territory	23.3	23.1	1.1	1.2
Voronezh Region	82.7	74.5	3.9	3.9
Kursk Region	74.7	61.5	3.5	3.2
Azov-Black Sea Territory	127.3	121.8	6.0	6.4
Northern Caucasus Territory	50.5	54.5	2.4	2.9
Crimean A.S.S.R.	16.4	17.9	0.8	0.9
Bashkir A.S.S.R.	21.8	21.8	1.0	1.2
Orenburg Region	20.0	13.5	0.9	0.7
Sverdlovsk Region	36.0	32.6	1.7	1.7
Cheliabinsk Region	27.2	26.2	1.3	1.4
Kazakhstan A.S.S.R.	29.2	21.7	1.4	1.1
Kara-Kalpak A.S.S.R.	0.6	1.0	0.0	0.1
Kirghiz A.S.S.R.	3.7	5.8	0.2	0.3
Omsk Region	16.4	15.1	0.8	0.8
West Siberian Territory	50.2	49.8	2.4	2.6
Krasnoyarsk Territory	15.7	12.9	0.7	0.7
East Siberian Territory	13.7	14.9	0.6	0.8
Yakut A.S.S.R.	0.3	0.3	0.0	0.0
Far Eastern Territory	32.3	31.1	1.5	1.6
II. Ukrainian S.S.R.	825.4	679.9	38.8	35.8
III. White Russian S.S.R.	73.5	60.0	3.4	3.2
IV. Transcaucasian S.F.S.R.	38.7	39.9	1.8	2.1
V. Uzbek S.S.R.	21.1	22.7	1.1	1.2
VI. Turkmenian S.S.R.	5.1	4.0	0.2	0.2
VII. Tadjik S.S.R.	5.3	5.8	0.3	0.3

Area Sown to Industrial Crops and Special Cultures, as of 1928-1935

(In thousands of hectares)

Crops	1928				1929				1930				1931			
	State Farms	Collective Farms	Individually-owned farms	Total	State Farms	Collective Farms	Individually-owned farms	Total	State Farms	Collective Farms	Individually-owned farms	Total	State Farms	Collective Farms	Individually-owned farms	Total *
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Industrial crops																
Cotton	15.3	17.5	938.5	971.3	14.7	60.5	980.3	1,055.5	55.4	618.6	908.6	1.582.6	147.7	1,390.6	599.0	2,137.3
Flax	27.2	21.2	1,687.2	1.735.6	33.4	64.3	1,955.9	2,053.6	29.2	461.1	1,759.0	2,249.3	46.9	1,740.5	1,350.7	3,138.1
Of which: Long fiber	3.9	9.1	1,351.1	1,364.1	6.5	36.5	1,587.6	1,630.6	17.0	265.0	1,467.1	1,749.1	39.0	1,235.8	1,116.1	2,390.9
Hemp	0.7	3.0	909.0	912.7	1.1	8.9	862.5	872.5	2.4	127.2	598.5	728.1	24.8	433 3	483.2	941.3
Kenaf	1.3	—	10.8	12.1	2.5	—	14.1	16.6	8.3	33.3	13.2	54.8	11.2	41.9	10.2	63.3
Sunflower	42.8	101.6	3,760.5	3,904.9	45.1	180.8	3,394.3	3,620.2	21.1	2,004.2	1,360.3	3,385.6	92.1	3,859.6	622.9	4,574.6
Soya beans	—	—	48.5	48.5	1.1	15.3	55.1	71.5	32.0	270.5	29.3	331.8	82.1	320.6	65.1	467.8
Mustard	—	4.0	79.1	83.1	—	11.8	85.8	97.6	—	55.9	57.3	113.2	9.2	275 4	48.9	333.5
Cunjut (sesame)	—	—	19.0	19.0	—	—	31.0	31.0	—	10.3	23.8	34.1	1.2	52.1	39.6	92.9
Saflor (safflower) [1]	—	—	—	—	—	0.1	2.3	2.4	—	2.0	4.6	6.6	0.9	22.2	2.2	25.3
Ryjei [2]	—	—	—	—	—	—	—	—	—	—	—	—	7.3	118.6	39.9	165.8
Tobacco	0.1	0.6	44.5	45.2	0.1	2.7	44.3	47.1	1.2	26.2	26.3	53.7	6.3	60.9	25.8	93.0
Coarse tobacco	0.1	0.1	36.0	36.2	—	0.5	42.3	42.8	1.1	13.3	26.3	40.7	15.7	58.4	33.8	107.9
Sugar beet (for refineries)	202.1	12 2	555.4	769.7	217.0	26.2	527.5	770.7	201.7	386.2	447.9	1.035.8	184.4	855.4	354.3	1,394.1
Truck farm crops																
Potatoes	35.3	33.1	5,609.2	5,677.6	40.3	76.5	5.574.9	5.691.7	66.2	943.3	4,717.0	5,726.5	283.6	2.319.4	3,566.3	6,169 3
Vegetables	8.2	8.0	780.9	797.1	8.9	19.3	805.9	834.1	41.3	359.7	782 3	1,183.3	305.9	754.8	925.8	1,986.5
Melons (watermelon, etc.)	2.0	18 2	1,188 5	1,208 7	1.6	39.4	1,068.2	1,109.2	5.4	536.6	516.4	1,058.4	44.9	561.0	297.3	903.2

Table 14 (Continue d

Crops	1932				1934				1935			
	State Farms	Collective Farms	Individually-owned farms	Total	State Farms	Collective Farms	Individually-owned farms	Total	State Farms	Collective Farms	Individually-owned farms	Total
A	17	18	19	20	21	22	23	24	25	26	27	28
Industrial crops												
Cotton	152.3	1,700.7	319.0	2.172.0	106.6	1,672.0	162 0	1.940 6	99 2	1,739.9	114.4	1,953.5
Flax	69.0	2.060.9	1,025.1	3,155 0	15.2	1.846.7	494.0	2.355 9	16.8	2,100.6	212.7	2,330.1
Of which: Long fiber	52.5	1,594.3	863 2	2,510.0	7.3	1,639.8	462.7	2.109.8	6.0	1,911.1	189.6	2,106.7
Hemp	28 6	613.6	302.1	944.3	20.4	446.4	136 0	602 8	13.8	499.5	91.6	604.9
Kenaf	7.9	26.3	5.8	40.0	2 8	7.8	0.7	11.3	2.7	10.3	0.2	13.2
Sunflower	282.7	4,684.4	338.9	5,306.0	185.9	3.118.3	195.9	3,500.1	195.6	3,024.0	89.8	3,309.4
Soya beans	38.7	215.0	46.1	299 8	22.8	69.8	20.7	113.3	31.5	76.0	1.9	109.4[3]
Mustard	10 8	291.5	15.9	318.2	11.9	233.7	10.3	255.9	16.6	270.2	3 6	290.4
Cunjut	2.4	53.2	20.7	76.3	0.1	21.5	4.1	25.7	0 4	17.3	5.4	23.1
Saflor (safflower) 1)	0.7	46.6	1.8	49.1	0.8	26 9	—	27.7	1.5	26 9	0 2	28 6
Ryjei 2)	5.0	39.8	15.4	60.2	5.4	46.4	15.1	66.9	13.4	64.3	4.9	82.6
Tobacco	5.7	70.2	23.3	99.2	3.9	66.6	18.5	89.0	4.1	72.7	13.0	89.8
Coarse tobacco	20.8	104 9	21 8	147.5	6.4	80.6	15.4	102.4	6.6	88.9	11.8	107.3
Sugar beet (for refineries)	198.2	1,106.7	232.9	1,537.8	104.0	1.007.8	71.5	1,183.3	121.5	1,092.7	10.9	1,225.1
Truck farm crops												
Potatoes	378.0	2,818 3	2,915.1	6.111.4	660.3	2,714 3	2,755.8	6.130.4	735.1	3,440.9	3,199.6	7,375.6
Vegetables	355.3	996.6	883.7	2,235.6	395 9	669.9	1,061 6	2,127.4	347.4	661.4	889.8	1,898.6
Melons (watermelon, etc.)	69.4	596.2	202.8	868.4	80 2	335.5	161.0	576.7	99.3	347.2	215.8	662.3

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1) A special oil-yielding culture, *Corthamus tinctorius.*

2) A special oil-yielding culture, *Camelia sativa.*

3) In addition to this, 27.5 thousands of hectares sown to soya beans interorop.

Table 15

Area Sown to Feed and Fodder Crops, as of 1928-1935

(In thousands of hectares)

Crops	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
Fodder and feed crops								
Sown grasses	3,567.1	4,622.6	5,960.9	7,411.3	8,250.2	5,968.6	5,889.7	7,156.8
Including:								
Perennial grasses	2,403.8	3,154.5	3,944.0	4,128.1	3,783.9	2,878.7	2,857.7	2,900.1
Annual grasses	1,163.3	1,468.1	2,016.9	3,283.2	4,461.3	3,089.9	3,032.0	4,256.7
Crops sown under cover	—	—	1,224.0	629.6	1,067.9	905.0	798.4	2,275.2
Forage root-crops	304.4	360.5	373.7	604.7	725.9	735.8	654.1	775.1
Silage crops	—	—	172.3	764.7	1,655.5	616.6	599.6	676.8
Total feed and fodder crops, exclusive of crops grown under cover	3,871.5	4,983.1	6,506.9	8,780.7	10,631.6	7,321.0	7,143.4	8,608.7

Table 16

Yield of Cereal Crops in the U.S.S.R. [1]

(Centners per hectare)

Year	All cereals	Inclusive of:					
		Winter rye	Wheat		Spring barley	Oats	Maize
			Winter crops	Spring crops			
A	1	2	3	4	5	6	7
1922	7.6	7.9	8.8	6.5	9.3	8 2	9.4
1923	7.2	7.3	8.8	5.7	7,5	7.2	12.7
1924	6 2	6.7	7.4	5 3	5.9	6.9	9.3
1925	8.3	7.9	9.3	7.9	9.2	9.0	13.2
1926	8.2	8.3	9.7	7.7	7.4	9.7	11.5
1927	7.6	8.9	8.7	5.9	6.5	7.3	11.3
1928	7.9	7.8	7.8	8.0	7.7	9.5	7.4
1929	7.5	8.2	7.9	5.9	9.0	8.3	8.5
1930	8.5	8.4	10.6	7.3	9.4	9.7	7.6
1931	6.7	8.0	9.1	4.0	7 4	6.3	11.8
1932	7.0	8.4	7.4	5.1	7.4	7.3	9.3
1933	8.8	9.5	10.8	7.1	10.9	9.2	12.1
1934	8.5	8.4	7.9	8.9	8.0	10.5	10.4
1935	8.7	9 1	9.6	7.7	9.4	10.0	8.6

Table 17

Gross Production of Cereals in the U.S.S.R.

(In millions of centners)

Year	All cereals	Inclusive of:				
		Rye	Wheat	Barley	Oats	Maize
A	1	2	3	4	5	6
1922	503.1	181.7	106.0	42.8	77.9	30.1
1923	565.9	197.8	122.8	57.0	83.5	31.8
1924	514.0	188.3	130.7	43.7	89.0	23.3
1925	724.6	227.5	207.8	59.8	115.2	44.9
1926	768 3	236.6	244.4	54.8	148.4	34.5
1927	723.0	241.7	215.5	44.8	131.1	31.2
1928	733.2	193.0	219.7	56.7	164.8	32.9
1929	717.4	203.6	188.8	72.1	157.4	30.2
1930	835.4	236.0	269.2	67.7	166.2	26.7
1931	694.8	219.9	205.0	51.8	109.6	47.5
1932	698.7	220.2	202.5	50.3	112.4	34.3
1933	898.0	241.9	277.3	78.5	154.1	48.0
1934	894.0	201.3	304.1	68.4	189.0	38.4
1935	901.0	213.6	308.3	81.6	182.7	27.7

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[1] Figures for 1922-1932 are based on returns of the Central Administration of Economic and Social Statistics; those for 1933 and 1934 are according to data of the State Central Commission for Fixing the Yield of Crops.

Table 18

Yield of Industrial Crops in the U.S.S.R.

(Centners per hectare)

Year	Cotton	Flax		Sunflower	Sugar beet
		Seed	Fiber		
A	1	2	3	4	5
1924	7.6	3.1	2.5	5.0	92.1
1925	9.2	3.4	2.4	7.2	169.9
1926	8.2	3.2	2.1	6.0	118.4
1927	9.0	3.2	2.0	7.6	156.5
1928	8.5	3.5	2.4	5.4	131.8
1929	8.2	3.5	2.2	4.9	81.1
1930	7.0	3.2	2.5	4.8	135.3
1931	6.0	2.7	2.3	5.5	86.4
1932	5.9	2.5	2.0	4.3	64.3
1933	6.4	2.7	2.3	6.0	74.2
1934	6.1	2.9	2.5	5.1	96.0
1935 1)	8.8	3.2	2.6	5.8	132.3

Table 19

Gross Production of Iudustrial Crops in the U.S.S.R.

(In millions of centners)

Year	Cotton	Flax		Sunflower	Sugar beet
		Seed	Fiber		
A	1	2	3	4	5
1924	3.4	4.0	2.4	13.0	34.9
1925	5.4	5.4	3.0	22.3	90.7
1926	5.4	5.0	2.7	15.5	63.7
1927	7.2	5.0	2.4	21.6	104.1
1928	8.2	6.0	3.2	21.3	101.4
1929	8.6	7.1	3.6	17.6	62.5
1930	11.1	7.2	4.4	16.3	140.2
1931	12.9	8.4	5.5	25.1	120.5
1932	12.7	8.0	5.0	22.7	65.6
1933	13.2	7.4	5.5	23.5	89.9
1934	11.8	6.9	5.3	17.8	113.6
1935 1)	17.1	7.4	5.5	19.2	162.1

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1) Preliminary returns.

Table 20

Share of Socialized Agricultural Enterprises in Total Gross Production of Crops

(Per cent of total)

Crops	Types of socialized agricultural enterprises	1928	1929	1930	1931	1932	1933	1934
A	B	1	2	3	4	5	6	7
Cereals	State Farms	1.6	1.8	3.1	6.8	9.5	10.2	10.8
	Collective Farms . . .	1.2	3.8	28.5	55.2	66.9	73.3	77.0
Wheat	State Farms	1.5	2.4	5.6	12.1	13.9	12.0	12.0
	Collective Farms . . .	1.7	5.8	41.3	63.2	75.5	80.8	82.2
Cotton	State Farms	1.6	2.2	3.0	4.6	4.3	3.2	3.7
	Collective Farms . . .	1.9	5.5	35.3	68.0	79.7	86.5	89.0
Sugar beet (for refineries)	State Farms	31.9	29.0	23.2	15.3	15.7	8.4	10.7
	Collective Farms . . .	1.5	3.5	35.7	61.7	68.2	83.8	84.6
Long fiber flax	State Farms	0.3	0.4	1.0	1.8	2.2	0.4	0.3
	Collective Farms . . .	0.7	2.0	14.5	51.1	64.2	73.7	78.6

Table 21

Area of Fallow Land and Area Under Fall-Plowing

Year	Fallow land					Fall-plowed area	
	Area of fallow land (thous. of hectares)	Area of fallow land in per cent of total area sown to winter crops	Per cent of total area of fallow land distributed according to plowing period			Area for fall plowing (thous. of hectares)	Plowed area in per cent of total fall-sown area for production of crops the following year
			To May 15	From May 15 to June 15	After June 15		
A	1	2	3	4	5	6	7
1932	19,197	46.4	—	21.3	78.7	24,186	28.8
1933	23,598	53.0	2.7	37.4	59.9	30,402	36.4
1934	26,284	58.3	11.5	50.8	37.7	42,092	49.4
1935	28,014	61.9	16.3	63.6	20.1	47.018	56.7

9. LIVESTOCK BREEDING

Number of Domestic Animals in the U.S.S.R.

(As at July 1 of respective year, in thousands head)

Agricultural Sectors	Year	Horses			Cattle					Hogs (all ages)	Sheep and goats (all ages)
		All ages	Including:		All ages	Including:					
			Draft-horses	Colts under 1-year		Cows	Young stock				
							Over 2-years old	1 to 2-years old	Under 1-year		
A	B	1	2	3	4	5	6	7	8	9	10
All agricultural sectors	1930	30,236.8	20,865.7	2,457.9	52,485.8	26,693.0	1,678.7	5,728.6	13,150.1	13,559.0	108,758.3
	1931	26,246.7	19,543.2	1,954.1	47,916.0	24,413.4	1,482.9	4.680.6	13,617.8	14,442.5	77,692.1
	1932	19,638.0	16,180.4	858 4	40,650.7	21,027.6	1,290.8	4,155.2	10,957.6	11,611.4	52,140.5
	1933	16,578.9	14,067.0	—	38,380.2	19,550.7	—	—	—	12,067.4	50,223.6
	1934	15.649.2	12,815.3	1,245.3	42.421.7	19,544.4	1,459.7	5,016.6	13,261.2	17,449.8	51.924.7
	1935	15,881.3	12,043.2	1.965.0	49,255.6	20,147.1	1,612.0	7,590.1	16,420.1	22,550.1	61,051.3
Including:											
State Farms, Cooperative Farms and farms belonging to Workers' Supply Departments of Industrial Enterprises	1933	1,445.7	1,225.9	—	4,108.8	1,849.5	—	—	—	2,964.4	8,157.8
	1934	1,772.8	1,473.4	131.2	5,030.2	2,035.2	283.3	904.1	1,360.1	4,995.9	9,178.2
	1935	1,931.0	1,484.3	204.0	4,991.8	1,884.5	247.6	966.0	1,372.9	4,866.0	9,972.1
Collective Farms	1930	4,436.9	3,554.0	285.4	3,568.2	1,407.1	144.1	407.6	759.9	861.0	5,606.6
	1931	12,116.5	9.298.9	939.8	8,264.9	3,002.6	301.0	1,200.3	2,451.2	2,520.7	12,045.5
	1932	10,770.0	8.798.9	482.0	10,112.6	3,042.0	509.9	2,493.2	2,633.2	3,222.2	12,083.7
	1933	10,122.6	8,566.5	548.2	9,174.4	2,970 4	842.6	1,589.0	2,248.8	2.970.6	12,244.0
	1934	9,933.7	8,095.1	833.1	9,850.8	3,089.3	603 9	1,691.3	2,797.2	3,696.2	13,860.0
	1935	11,465.6	8,659.9	1,502.8	12,445.1	3,400.6	524.1	2,767.8	3,681.5	4,723.6	18,324.1
Collective and individual farmers and others of the rural population . . .	1930	25,372.5	16,954.5	2,153.2	47,812.3	24,733.8	1,458.8	5,199.5	12,195.7	12,458.0	100,098.7
	1931	13,060.1	9,297.4	973.2	36,461.9	19,743.0	948.0	3,053.7	10,542.2	10,565.0	59,831.0
Collective farmers	1932	363.3	259.7	38.1	12,698.0	8,140.6	147.4	384.6	3,853.2	2,902.1	14,564.0
	1933	427.1	251.5	59.4	14,878.2	9,000.5	217.1	615.2	4,890.9	3.765.2	17,276.1
	1934	389.5	212.3	64.7	17,207.0	9,141.8	292.2	1,565.3	6,061.4	5,416.9	17,775.0
	1935	492.0	263.0	94.5	22,999.3	10,738.1	555.6	2,823.0	8,661.7	9,185.5	24,083.3
Individual farmers, wage-earners, employees and others of the rural population .	1932	6.791.9	5.639.6	281.8	13,431.6	7,539 0	301.2	742.4	3.560.6	2.872.9	17,715.3
	1933	4,374.1	3.831.6	192 6	9.620 5	5,200.0	226.2	624.5	2,586.0	2,181.3	12,292.8
	1934	3,351.8	2,847.6	210.7	9,266.8	4,482.7	270.3	827.2	2,822.5	2,712.8	10,495.9
	1935	1,769.3	1.432.2	154.9	7,503.7	3,253.9	256.9	929.7	2,404.6	2,769.5	7,842.8

Number of Domestic Animals in All Sectors of

(As at July 1 of respective

Republics, Regions and Territories	Horses			
	All ages		Including draft-horses	
	1934	1935	1934	1935
A	1	2	3	4
U. S. S. R.	**15,649.2**	**15,881.3**	**12,815.3**	**12,043.2**
R. S. F. S. R.	11,572.3	11,774.8	9,391.7	8,844.1
Northern Territory	352.7	366.6	300.0	295.2
Karelian A.S.S.R.	39.2	41.4	35.3	35.6
Leningrad Region	452.8	451.1	404.2	383.4
Kalinin Region	482.5	480.6	433.8	410.6
Western Region	682.2	690.2	605.7	574.5
Moscow Region	692.4	715.5	603.9	571.7
Ivanovo Region	406.9	413.9	355.6	337.6
Gorky Territory	494.6	484.5	426.5	394.2
Kirov Territory	466.3	473.6	404.4	387.5
Tatar A.S.S.R.	356.8	359.3	290.4	266.0
Kuibyshev Territory	488.7	497.4	403.9	373.6
Saratov Territory	152.4	154.9	127.2	115.4
Stalingrad Territory	177.3	184.3	130.1	121.6
Voronezh Region	507.7	516.6	437.9	398.4
Kursk Region	461.3	487.6	402.2	379.7
Azov-Black Sea Territory	430.5	448.9	338.2	315.7
Northern Caucasus Territory	403.9	421.1	301.1	271.4
Crimean A.S.S.R.	82.2	75.5	64.3	57.1
Bashkir A.S.S.R.	444.2	467.1	353.4	344.9
Orenburg Region	153.5	156.1	128.2	119.1
Sverdlovsk Region	358.9	380.8	304.9	301.6
Cheliabinsk Region	261.9	260.6	216.0	206.8
Kazakhstan A.S.S.R.	433.4	465.8	332.8	295.3
Kara-Kalpak A.S.S.R.	38.1	37.3	31.8	28.2
Kirghiz A.S.S.R.	310.6	316.1	145.2	148.4
Omsk Region	314.0	319.7	242.8	231.8
Krasnoyarsk Territory	1,035.2	985.8	803.4	730.4
West Siberian Territory	337.1	331.9	261.0	244.7
East Siberian Territory	455.2	461.4	337.0	315.8
Yakut A.S.S.R.	154.8	166.9	51.6	55.8
Far Eastern Territory	145.0	162.3	118.9	131.7
Ukrainian S.S.R.	2,546.9	2,544.4	2,197.2	1,984.3
Kiev Region	433.7	443.2	376.5	346.9
Chernigov Region	317.1	316.0	274.7	247.7
Vinnitsa Region	464.4	451.1	408.9	367.4
Kharkov Region	425.7	439.0	374.6	341.7
Dniepropetrovsk Region	321.8	312.2	268.5	236.3
Odessa Region	298.0	295.7	249.4	221.5
Donetz Region	224.8	224.1	193.4	177.0
Moldavian A.S.S.R.	61.4	63.1	51.2	45.8
White Russian S.S.R.	713.0	706.5	626.6	586.3
Transcaucasian S.F.S.R.	373.3	388.9	228.7	259.1
Azerbaidjan S.S.R.	176.0	180.9	113.8	119.2
Georgian S.S.R.	150.1	159.1	85.4	108.8
Armenian S.S.R.	47.2	48.9	29.5	31.1
Uzbek S.S.R.	311.6	318.8	270.4	261.4
Turkmenian S.S.R.	55.8	58.8	39.2	40.0
Tadjik S.S.R.	76.3	89.1	61.5	68.0

Table 2

Agriculture: By Republics, Regions and Territories

year, in thousands head)

Cattle				Sheep and goats (all ages)		Hogs (all ages)	
All ages		Including cows					
1934	1935	1934	1935	1934	1935	1934	1935
5	6	7	8	9	10	11	12
42,421.7	**49,255.6**	**19,544.4**	**20,147.1**	**51,924.7**	**61,051.3**	**17,449.8**	**22,550.1**
30,717.6	35,749.9	14,491.2	14,942.8	39,730.8	46,681.2	10,964.4	15,110.6
1,095.8	1,287.8	562.4	584.3	797.1	909.7	137.2	182.3
108.7	120.2	61.2	61.1	73.9	81.6	18.4	24.5
1,185.1	1,377.0	684.7	681.2	1,212.1	1,348.7	452.3	531.2
1,222.5	1,367.4	656 9	649.2	1,799.6	1,937.0	291.3	361.3
1,233.0	1,512.3	742.9	725.0	1,282 7	1,412.1	526.6	849.1
1,455.9	1,782.8	849.4	852 2	2.031.2	2,146.8	845 5	1,235.4
1,290.1	1,494.1	677.1	699.2	1,544.4	1,970.6	295.1	431.1
1,210.8	1,346.4	647.9	637.9	2,167.4	2,204.8	622.3	733.7
1,015.8	1,226.7	548.5	549.5	1.623 9	1,548.5	346.3	448.1
701.0	732.7	344.3	332.1	1,166.7	1,276.2	264.2	277.0
1,024.4	1,209.7	525.7	530.2	1,227 9	1,583.0	478.7	617.6
580.3	710.4	269.9	281.9	818.1	1,077.3	318.8	399.8
1,042.1	1,186.1	355.9	371.0	1,495.4	1,864.0	243.9	461.7
1,312.2	1,561.8	605.1	626.7	1,367.7	1,702.2	627.2	905.5
932.4	1,139.7	484.6	491.8	820.2	959.1	352.3	533.3
1,549.1	1,832.9	585.5	631.4	1,446.8	1,847.8	981.2	1,298.5
1,753.3	1,980.4	630.0	662.3	3,997 8	4,660.4	354.2	597.6
190.9	223.7	86.6	94.3	520.6	652.6	147.8	139.2
970.0	1,162.1	452.7	473.7	1,093.5	1,466.0	231.9	411.2
602.3	687.4	244.5	247.6	754.4	968.2	79.0	145.5
840.1	1,050.3	510.1	518 4	597.6	783.5	247.8	471.4
929.5	1,055.2	459.3	460.3	971.4	1,152.8	258 0	307.8
1,945.6	2,272.2	689.9	761.2	3,336.7	4,093.0	234 4	448.6
75.6	79.5	25.8	25.5	163.8	212 5	0.4	1.3
353.1	387.0	131.7	136.3	1,250.8	1,467.1	54.5	128 8
1,044.7	1,238.3	471.9	505.7	951.2	1,187.9	464 0	564.6
2,611.5	2,965.4	1,170.9	1,257.2	2,823.4	3,352.7	1,057.8	1,159.7
649.5	721.5	311.0	318.8	1,229.4	1,379.5	329.1	430.2
1,018.8	1,176.2	397.6	439.5	1,106.1	1,368.6	361.8	516.0
487.6	505 5	169.2	184.2	0.2	—	7.5	17.6
285.9	357.2	138.0	153.1	58.8	67.0	331.7	481.0
5,277.5	6,269.7	2,518.0	2,643.9	2,197.1	2,746.2	4,236.7	4,719.4
974 0	1,205.4	478.3	508.4	192.7	246.7	617.3	958.2
529.4	629.5	274.4	272.5	171.4	201.6	295.0	480.0
782.7	926.0	410.9	416.2	171.2	181.0	712.7	824.3
874.4	1,040.7	401.1	425.7	314.7	410.0	676.5	799.7
753.3	874.8	344.1	372.5	426.5	521.0	684.9	504.4
579.5	678.2	261 5	279.0	404.2	514.4	637.4	496.3
701.2	810.8	310.1	326.8	428.1	556.7	495.2	541.9
83.0	104.3	37.6	42.8	88.3	114.8	117.7	114.6
1,605.8	2,007.2	953.7	950.6	1,236.8	1,176.3	1,542.5	1,655.4
3,419.5	3,703.0	1,106.1	1,132.5	4,284.1	4,867.7	650.9	907.2
1,287.2	1,387.1	437.4	438.9	1,749 0	1,961.8	102 0	154.2
1,527.7	1,650.1	475 1	494 7	1,591.8	1,821.9	497.5	674.2
604.6	665.8	193.6	198.9	943.3	1,084.0	51.4	78.8
893.2	931.9	311.1	302.7	2,322.6	2,861.6	38.1	114.3
153.0	181.4	52.2	58.6	1,278.6	1,580.7	12.9	30.3
355.1	412.5	112.1	116,0	874.7	1,137.6	4.3	12.9

Number of Domestic Animals on Collective

(As at July 1 of respective

Republics, Regions and Territories	Horses					
	All ages		Including:			
			Draft-horses		Colts under 1-year	
	1934	1935	1934	1935	1934	1935
A	1	2	3	4	5	6
U. S. S. R.	**13,675.0**	**13,726.9**	**11,155 0**	**10,355.1**	**1.108.5**	**1.752.2**
R.S.F.S.R.	10,135.3	10,181.9	8,189.1	7,608.0	847.1	1.284.7
Northern Territory	318.5	331.0	269.7	265.8	22.4	31.5
Karelian A.S.S.R.	25.7	27.0	22.5	22.6	1.4	2.5
Leningrad Region	400.5	394.1	357.6	355.0	21.1	31.3
Kalinin Region	460.3	457.6	413.3	390.8	22.9	35.1
Western Region	647.4	651.8	575.2	542.5	27.1	61.1
Moscow Region	583.7	599.0	506.1	475.9	41.6	70.9
Ivanovo Region	377.9	380.2	329.5	308.4	27.8	38.1
Gorky Territory	467.4	454.0	403.3	369.4	39 9	44.0
Kirov Territory	450.5	457.0	390.2	372.7	32.8	45.4
Tatar A.S.S.R.	331.1	332.2	268.9	244.7	32.7	43.2
Kuibyshev Territory	439.6	442.8	363.7	332.2	37.7	60.5
Saratov Territory	116.7	114.0	102.4	88.7	6.5	15.4
Stalingrad Territory	147.8	149.7	105.3	94.4	15.1	24.7
Voronezh Region	454.2	454.9	393.6	351.6	32.5	67.6
Kursk Region	426.5	446.9	373.0	347.3	22.1	68.3
Azov-Black Sea Territory	338.8	343.2	265.0	236.6	32.1	55.5
Northern Caucasus Territory	349.0	361.9	261.8	228.3	36.5	61.7
Crimean A.S.S.R.	66.6	58.8	51.2	43.6	7.1	6.9
Bashkir A.S.S.R.	408.0	424.4	323.9	312.2	37.6	60.0
Orenburg Region	129.9	131.5	110.0	101.3	6.2	18.0
Sverdlovsk Region	285.4	300.7	238.2	233.0	21.0	37.3
Cheliabinsk Region	197.5	187.8	162.0	147.3	11.6	21.3
Kazakhstan A.S.S.R.	309.0	323.3	235.6	211.8	32.2	54.9
Kara-Kalpak A.S.S R.	36.7	35.7	30.6	27.0	3.1	3.9
Kirghiz A.S.S.R.	278.5	279.1	131.4	131.6	57.1	63.5
Omsk Region	281.5	284.0	215.6	202.9	31.2	40.0
West Siberian Territory	836.0	835.7	670 4	605.4	92.8	100.9
Krasnoyarsk Territory	281.5	271.6	215.6	197.0	23.0	29.7
East Siberian Territory	390.3	391.1	277.5	259.6	36.8	51.7
Yakut A.S.S.R.	151.4	163 3	48.7	52.9	27.2	27.5
Far Eastern Territory	97.4	97.6	77 3	75.5	8.0	12.3
Ukrainian S.S.R.	2,149.9	2,134.9	1,854.7	1,653.3	163.5	301.8
Kiev Region	381.0	383.9	330.3	297.3	27.8	55.4
Chernigov Region	295.6	293.6	255.9	229.3	15.6	38.5
Vinnitsa Region	419.5	405.6	369.2	329.5	29.0	48.9
Kharkov Region	358.7	370.6	316 8	287.5	20.8	57.5
Dniepropetrovsk Region	263.5	255.9	218.7	191.7	26.5	36.4
Odessa Region	247.8	243.3	206.5	180.4	26.7	36.4
Donetz Region	129.9	126.5	112.7	97.9	10.0	18.0
Moldavian A.S.S.R.	53.9	55.5	44.6	39.7	7.1	10.7
White Russian S.S.R.	660.1	650.6	579.7	539.1	30.2	60.9
Transcaucasian S.F.S.R.	330.9	343.5	197.1	224.4	40.7	57.3
Azerbaidjan S.S.R.	157.6	159 8	99.4	103.3	21.1	29.3
Georgian S.S.R.	133.6	142.1	73.4	95.9	15.0	20.9
Armenian S.S.R.	39.7	41.6	24.3	25.2	4.6	7.1
Uzbek S.S.R.	282.5	285.4	244.6	234.1	17.7	29.9
Turkmenian S.S.R.	48.5	50.9	34.1	34.2	5.1	7.4
Tadjik S.S.R.	67.8	79.7	55.7	62.0	4.2	10.2

Farms and Individually-Owned Farmsteads

year, in thousands head)

Cattle						Sheep and goats (all ages)		Hogs (all ages)	
All ages		Including: Cows		Including: Calves under 1-year					
1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
7	8	9	10	11	12	13	14	15	16
36,324.6	**42.948.1**	**16,713.8**	**17.392 6**	**11.681.1**	**14,747.8**	**42,130.9**	**50,249.7**	**11.825.9**	**16,678.6**
25,858.3	30,750.1	12,249.1	12,766.6	8,652.6	10,918.8	32,345.5	38,684.0	7.199.3	10,966.3
1,029.5	1,222.8	527.5	552.0	341.3	449.1	779.7	892.5	92.4	130.2
101.5	111.9	56.3	56.2	33.4	40.4	69.0	75.4	9.0	13.7
1,098.7	1,274.6	628.9	620.9	358.3	477.3	1,177.2	1,308.3	189.4	255.0
1,169.6	1,308.3	622.2	613.9	435.9	515.7	1,777.8	1,914.2	209.1	277.5
1,131.7	1,396.6	672.3	657.0	342.2	544.3	1,263.6	1,391.2	422.5	729.3
1,279.7	1,577.2	741.0	739.1	438.7	616.3	1,957.0	2,081.1	422.7	773.6
1,205.3	1,395.2	621.3	640.5	476.6	538.3	1,497.9	1,906.1	170.5	277.0
1,152.6	1,277.2	609.3	597.4	410.5	475.8	2,115.2	2,146.9	532.4	632.5
980.2	1,188.3	523.9	524.7	333.0	452.5	1,601.4	1,528.[illegible]	308.1	405.7
651.0	677.5	317.3	304.2	254.9	266.3	1,113.4	1,216.9	191.2	206.3
891.5	1,070.9	461.9	469.5	310.9	405.9	1,144.5	1,478.6	215.2	361.5
440.9	569.0	208.6	224.3	146.3	192.5	504.4	729.8	124.5	220.6
800.8	948.7	270.7	292.1	238.1	279.9	1,006.9	1,342.8	185.3	374.9
1,189.6	1,424.9	547.8	567.5	424.9	516.3	1,225.6	1.562.6	377.3	634.8
864.6	1,065.2	452.3	460.2	300.9	404.2	786.4	930.2	241.1	415.0
1,213.3	1,478.1	466.4	510.7	367.4	452.0	888.1	1,183.8	625.9	916.7
1,558.0	1,780.2	559.7	590.5	429.5	503.2	3,029.8	3,525.7	216.8	402.3
159.6	184.8	71.7	76.9	56.8	59.9	296.7	390.2	84.6	66.9
860.0	1.041.7	401.7	422.5	351.2	403.2	1,030.7	1,378.9	184.4	344.1
409.1	514.4	169.2	181.6	121.5	164.0	467.4	638.9	31.6	89.3
690.9	884.0	400.7	414.6	191.5	328.0	526.7	686.1	180.1	381.0
698.6	813.0	334.0	345.7	229.7	284.3	721.6	871.2	123.8	183.6
989.9	1.389.1	345.0	449.6	291 8	420.5	1,499.3	2,322.6	114.2	274.2
71.4	75.4	24.5	24.1	21.6	23.0	108.1	142.8	—	—
273.7	313.3	102.6	112.4	96.9	107.0	799.6	1,009.6	37.3	92.6
820.5	998.1	366.6	402.7	279.6	356.2	816.7	1,018.8	358.0	462.7
2,064.1	2,401.6	912.5	999.6	727.5	875.9	2,373.2	2,872.7	768.4	895.6
457.0	539.8	222.3	236.6	150.2	186.6	806.5	948.7	267.8	364.7
896.8	1,053.1	339.8	385.1	286.8	355.2	914.4	1.136.2	284.3	427.4
481.0	498.9	165.9	180.9	131.4	133.7	0.2	—	6.4	14.5
227.2	276.3	105.2	113.6	73.3	91.3	46.5	53.4	225.0	343.1
4,411.6	5,379.9	2.114.2	2,248.3	1,495.6	1,858.6	1,492.7	1,929.2	2,758.0	3,397.6
869.8	1,089.5	430.0	458.6	289.2	385.1	172.7	221.7	469.1	796.5
485.4	577.8	249.8	248.0	173.8	210.0	163.2	192.0	221.9	395.7
711.4	849.5	378.4	383.5	239.1	306.6	157.4	166.8	570.3	703.1
710.0	874.0	326.6	352.5	238.5	295.0	243.1	321.0	355.9	503.6
618.2	740.3	280.8	310.4	211.9	245.8	244.1	340.4	452.5	341.8
458.8	562.7	208.2	229.3	158.0	193.3	189.1	262.7	394.5	309.0
484.0	590.7	206.8	226.9	159.0	187.6	254.0	331.8	199.1	249.7
74.0	95.4	33.6	39.1	426.1	35.2	69.1	92.8	94.7	98.2
1,472.7	1,861.4	869.5	870.6	379.4	674.3	1,208.8	1,153.0	1,316.4	1,469.4
3,267.8	3,542.3	1,041.3	1,068.6	798.3	900.9	3,865.4	4,386.0	544.3	801.9
1,242.1	1,337.5	416.6	418.2	350.1	377.7	1,626.7	1,806.7	62.2	110.0
1,470.3	1,591.4	451.1	470.7	316.9	374.4	1,370.2	1,574.9	441.0	623.3
555.4	613.4	173.6	179.7	131.3	148.8	868.5	1,004.4	41.1	68.6
830.6	857.0	284.4	276.2	219.7	244.1	1,631.5	2,041.0	6.7	35.6
138.7	160.0	46.5	50.9	44.2	48.0	844.4	1,077.0	1.2	4.8
344.9	397.4	108.8	111.4	91.3	103.1	742.6	979.5	—	3.0

Table 4

Number of Domestic Animals on July 1, 1935, as Compared with July 1, 1934

(Per cent of increase)

Domestic Animals	All agricultural sectors	Including:			
		State Farms, Cooperative Farms and farms of Workers' Supply Departments	Collective Farms	Collective farmers	Individual farmers
A	1	2	3	4	5
Horses (all ages)	101.5	108.9	115.4	126.3	52.8
Of which: Draft-horses	94.0	100.7	107.0	123.9	50.3
Cattle (all ages)	116.1	99.2	126.3	133.7	81.0
Of which:					
Cows	103.1	92.6	110.1	117.5	72.6
Young cows and heifers over 2-years old	110.4	87.4	86.8	190.1	95.0
Young stock, 1-2 years old	151.3	106.8	163.6	180.3	112.4
Calves, under 1-year old	123.8	100.9	131.6	142.9	85.2
Sheep and goats (all ages)	117.6	108.6	132.2	135.5	74.7
Of which: Full-grown	117.6	107.6	132.7	136.2	76.7
Hogs (all ages)	129.2	97.4	127.8	169.2	102.1
Of which: Sows over 9 months old	117.3	91.1	126.6	161.2	83.1

Table 5

Share of the Various Sectors of Agriculture in Total Number of Domestic Animals

(As at July 1 of respective year)
(Per cent of total)

Agricultural Sectors	Year	Horses	Cattle		Sheep and goats (all ages)	Hogs (all ages)
		All ages	All ages	Including cows		
A	B	1	2	3	4	5
All agricultural sectors	1934	100.0	100.0	100.0	100.0	100.0
Including:						
State Farms, Cooperative Farms and farms belonging to Workers' Supply Departments of Industrial Enterprises		11.3	11.9	10.4	17.7	28.6
Collective Farms		63.5	23.2	15.8	26.7	21.2
Collective farmers		2.5	40.6	46.8	34.2	31.0
Individual farmers and others 1)		21.4	21.8	22.9	20.2	15.6
All agricultural sectors	1935	100.0	100.0	100.0	100.0	100.0
Including:						
State Farms, Cooperative Farms and farms belonging to Workers' Supply Departments of Industrial Enterprises		12.2	10.1	9.4	16.3	21.6
Collective Farms		72.2	25.3	16.9	30.0	20.9
Collective farmers		3.1	46.7	53.3	39.5	40.7
Individual farmers and others 1)		11.1	15.2	16.1	12.8	12.2

1) Inclusive of wage-earners, employees and others of the rural population.

Table 6

Number of Domestic Animals on State Farms and Special Stock-Breeding Collective Farms Raising Stock for Sale or Purveyance

(As at July 1 of respective year, in thousands head)

Domestic Animals	State-Farms, Cooperative Farms and farms belonging to Workers' Supply Departments of Industrial Enterprises			Stock-Breeding Collective Farms Raising Stock for Sale or Purveyance		
	1934	1935	1935 in per cent of 1934	1934	1935	1935 in per cent of 1934
A	1	2	3	4	5	6
Cattle (all ages)	5,030.2	4,991.8	99.2	6,615.3	10,225.6	154.6
Of which: Cows	2,035.2	1.884.5	92.6	2,505.0	3,289.5	131.3
Calves under 1-year old	1.360.1	1,372.9	100.9	2,137.3	3,470.4	162.4
Sheep and goats (all ages)	9,178.2	9,972.1	108.6	9,841.3	17,393.6	176.7
Hogs (all ages)	4,995.9	4,866.0	97.4	2,929.6	4,470.2	152.6

Table 7

Growth in Number of Stock-Breeding Collective Farms Raising Stock for Sale or Purveyance

(As at July 1 of respective year)

Type of Stock-Breeding Farm	1931	1932	1933	1934	1935
A	1	2	3	4	5
Cattle-breeding farms	8,925	48,869	54,424	67,982	125,850
Hog-breeding farms	6,494	25.371	36,796	42,697	71,080
Sheep-breeding farms	—	5,967	11,586	21,978	60,992
Horse-breeding farms	—	2,592	3,629	4,272 1)	7,019

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1) As at August 1.

Table 8

Efficiency Characteristics of Stock-Breeding on State Farms

Indices	1932	1933	1934	1935
A	1	2	3	4
I. Dairy Farms and Beef Farms under the People's Commissariat of State Farms				
1. Number of live calves born per 100 dams . . .	60.1	69.1	77.1	84.6
2. Per cent of loss among calves under 1-year old to total calvings	34.0	19.4	16.6	15.5
3. Average annual yield of milk per milch cow (in kilograms)	505	700	844	1,089 1)
4. Average live-weight per head of livestock (cattle) delivered to the State (in kilograms) .	215	237	248	272
II. Hog-Breeding Farms under the People's Commissariat of State Farms				
1. Average annual number of farrowings per sow .	0.85	1.11	1.24	1.44 2)
2. Average number of pigs saved per litter . .	7.61	7.74	8.02	8.60
3. Average number of pigs saved per sow	6.46	8.59	9.94	-
4. Per cent of loss among pigs under 2-months old to total number born	50.6	30.9	21.5	17.2
5. Average live-weight of sows delivered to the State (in kilograms)	78	119	298	—
6. Average live-weight of hogs delivered to the State (in kilograms)	65	61	64	87
III. Hog-Breeding Farms under the People's Commissariat of Food Industry				
1. Average annual number of farrowings per sow	—	0.99	1.13	1.33
2. Average number of pigs saved per sow	—	8.28	8.02	8.50

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1) As at December 1, exclusive of milk sucked by calves.
2) As at November 1.

Table 8 (Continued)

Indices	1932	1933	1934	1935
A	1	2	3	4
3. Average number of pigs saved per sow	—	8.17	9.06	—
4. Per cent of loss among pigs under 2-months old to total number born	—	28.8	18.2	18.8
5. Average live-weight of sows delivered to the State (in kilograms)	—	—	316	—
6. Average live-weight of hogs delivered to the State (in kilograms)	—	50	72	110.8
IV. Sheep-Rearing Farms under the People's Commissariat of State Farms				
1. Number of live lambs per 100 mother ewes .	103.3	108.0	108.3	113.6
2. Per cent of barren ewes	18.6	14.4	9.8	6.2
3. Per cent of loss among lambs under 1-year old to total number born	—	27.1	17.6	9.1
4. Weight of wool per head of sheep shorn (in kilograms):				
a) Fine fleece	4.40	4.02	4.23	4.82
b) Semi-coarse wool:				
Spring shearing	2.27	1.93	1.98	2.33
Fall shearing	0.84	0.90	0.92	0.94
c) Coarse wool:				
Spring shearing	1.21	1.18	1.27	1.36
Fall shearing	0.75	0.68	0.73	0.74
V. State Farms of the Astrakhan Lamb-Breeding Trust ("Soyuz-Karakulevod")				
1. Number of live lambs per 100 mother ewes . .	—	100	102	106.4
2. Per cent of barren ewes	—	8.4	9.0	7.2
3. Per cent of loss among young lambs (prior to distribution by sex) to total number born . . .	—	4.9	6.4	

Table 8 (Continued)

Indices	1932	1933	1934	1935
A	1	2	3	4
4. Weight of wool per head of sheep shorn (in kilograms):				
a) Spring shearing	—	1.43	1.48	1.64
b) Fall shearing	-	0.75	0.79	0.77
VI. State Farms of the Chief Administration of the Sugar Industry ("Glavsakhar")				
1. Number of live calves born per 100 dams . .	71.4	59.4	71.9	81.4
2. Per cent of loss among calves under 6-months old to total calvings	49.9	34.7	19.3	14.9[1]
3. Average annual yield of milk per milch cow (in kilograms)	883	890	1,194	1,394
4. Average live-weight per head of livestock (cattle) delivered to the State (in kilograms)	260	230	341	346

Table 9

Efficiency Characteristics of Stock-Breeding Collective Farms

(Raising Stock for Sale or Purveyance)

Type of Collective Farms	1932	1933	1934	1935
A	1	2	3	4
Cattle-Breeding Farms				
1. Number of live calves born per 100 dams . . .	97.5	96.3	98.6	99.0
2. Per cent of loss among cows to average number of cows	4.4	2.2	1.2	1.0
3. Per cent of loss among calves to total calvings	37.9	21.7	13.6	12.5
4. Average yield of milk per milch cow (in kilograms)	931	983	999	1,028
5. Average live-weight per head of livestock delivered to the State (in kilograms)	182	238	242	214[2]
Hog-Breeding Farms				
1. Average number of pigs saved per litter . . .	6.9	7.0	7.3	7.4
2. Per cent of loss among pigs under 2-months old to total farrowings	30.2	21.1	12.1	11.5
Sheep-Rearing Farms				
1. Average number of live lambs per mother ewe	1.07	1.11	1.16	1.17
2. Per cent of loss among sheep of all ages to average number of head	22.6	15.0	8.2	6.9

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[1] Per cent of loss among calves under 1-year old to total calvings.

[2] The decline in the average live-weight is due to younger stock being delivered to the State.

III. TRANSPORT AND COMMUNICATIONS

1. Transport

Railway Transport

River Transport

Marine Transport

Air Transport

2. Communications
(Post, Telegraph, Telephone, Radio)

1. TRANSPORT

RAILWAY TRANSPORT

Table 1

Operating Length of Railway Lines in the U.S.S.R.

(Preliminary data, as at Jan. 1. 1936)

Railway Lines	Operating length (kilometers)	Railway Lines	Operating length (kilometers)
A	1	A	1
Total	84.367		
Of which: Narrow gauge	1,191	15. "Kaganovich" Railway (formerly Perm)	3,943
1. West Siberian Railway	1,576	16. Riazan-Uralsk „	3,006
2. Donetz „	2,056	17. „Kuibyshev" „ (formerly Samara-Zlatoust)	1,682
3. "Stalin" „ (formerly Yekaterinin)	4,058	18. Northern „	3.834
4. "Molotov" „ (formerly Transbaikal)	2,237	19. Northern Caucasus Railway	1,332
5. Transcaucasian „	2,199	20. Central Asia „	4,075
6. Western „	5,620	21. Tomsk Railway	2,985
7. Moscow-White Russian-Baltic Railway	3,744	22. Turkestan-Siberian Railway	2,061
8. "Lenin" Railway (formerly Moscow-Kazan)	4.661	23. Ussuri Railway	2,680
9. "Dzerginsky" Railway (formerly Moscow-Kursk)	2,532	24. South Eastern Railway	2,873
10. Moscow-Belt „	178	25. South Western „	6,004
11. "Kirov" „ (formerly Murmansk)	2,421	26. Southern Ural „	2,420
12. October „	3,736	27. Southern „	2,685
13. Omsk „	2,617	28. Moscow-Donbas Railway	1,589
14. Orenburg „	2,528	29. "Voroshilov" „ (formerly Azov-Black Sea)	3,035

Table 2

Operating Length of Railway Lines in the U.S.S.R.: By Republics, Regions and Territories

(In kilometers, as at Jan. 1, 1936)

Republics, Regions and Territories	Total operating length (kilometers)	Length of railway lines per 1,000 sq. km of territory
A	1	2
U. S. S. R.	**84,367**	**4.0**
I. R.S.F.S.R.	60,963	3.1
Northern Territory	1,143	1.0
Leningrad Region	4,474	14.1
Karelian A.S.S.R.	917	6.2
Kalinin Region	2,394	22.5
Western Region	2,704	23.7
Moscow Region	4,096	33.6
Ivanovo Region	1,154	18.2
Yaroslavl Region	926	15.2
Gorky Territory	1,596	12.2
Kirov Territory	1.112	7.7
Bashkir A.S.S.R.	607	4.3
Tatar A.S.S.R	384	5.7
Sverdlovsk Region	3,646	10.6
Cheliabinsk Region	2,264	13.1
Kuibyshev Territory	2,420	16.2
Kursk Region	2,102	27.4
Voronezh Region	2.693	23.0
Saratov Territory	1.798	15.3
Stalingrad Territory	1,440	6.9
Azov-Black Sea Territory	3,295	18.1
Northern Caucasus Territory	1,736	10.2
Crimean A.S.S.R.	562	21.6
Orenburg Territory	1,046	8.4
Kazakhstan A.S.S.R.	5.228	1.9
Kirghiz A.S.S.R.	162	0.8
Omsk Region	923	0.6
West Siberian Territory	3,024	3.3
Krasnoyarsk Territory	1,167	0.5
East Siberian Territory	2,815	1.6
Far Eastern Territory	3.135	1.1
II. Ukrainian S.S.R.	14,267	32.2
Including: Moldavian A.S.S.R.	251	29.9
III. White Russian S.S.R.	3,094	24.4
IV. Transcaucasian S.F.S.R.	2,175	11.7
Including: Georgian S.S.R.	927	13.3
Including: Armenian S.S.R.	401	13.4
Including: Azerbaidjan S.S.R.	847	9.8
V. Uzbek S.S.R.	1,877	10.9
VI. Turkmenian S.S.R.	1,738	3.9
VII. Tadjik S.S.R.	253	1.8

Table 3

Development of Railway Lines in the U.S.S.R.: Freight and Passengers Carried

Indices	In terms of:	1913 (U.S.S.R. boundaries)	1928	1932	1934	1935
A	B	1	2	3	4	5
I. Operating length[1]) (average for respective year)						
Total	Kilometers	58,549	76,887	81,564	83,247	83,818
Standard gauge	„	55,574	75,883	80,561	82,244	82,721
Narrow gauge	„	2.975	1.004	1,003	1.003	1,097
Length of railway network per 1,000 sq. km. territory	„	2.76	3 62	3 84	3.94	3.96
Total operating length of railway lines (as at end of year):						
Lines with two tracks	„	—	15,609[2])	18,848	20,685	22,558
„ „ three or more tracks	„	—		145	222	252
Electrified sections	„	—	—	153	379	907
Sections equipped with automatic block signalling	„	—	—	582	2,078	3,717
II. Freight and passengers carried (per kilometer operating length)						
Revenue freight runs	Thous. ton-km.	1,122	1,215	2,075	2.472	3,079
Revenue passenger runs	Thous. pass-km.	431	318	1,027	858	811

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[1]) See Note to Table 4.

[2]) As at Oct. 1, 1928.

Table 4

Growth of Electrified Railways in the U.S.S.R., 1929-1935

Railway Sections	Railway Lines	Operating length (kilometers)
A	B	1
1929		
Moscow—Mytishchy	Northern	18
Total as at Jan. 1, 1930	»	18
1930		
Mytishchy—Pravda	»	18
Mytishchy—Shchelkovo	»	19
Total put into operation during 1930	»	37
Total as at Jan. 1, 1931	»	55
1931		
Pravda-Sofrino	»	9
Total as at Jan. 1, 1932	»	64
1932		
Sofrino—Zagorsk	»	26
Khashuri—Zestafoni	Transcaucasian	63
Total put into operation during 1932		89
Total as at Jan. 1, 1933		153
1933		
Kisel—Chusovskaya	"Kaganovich" 1)	112
Moscow—Obiralovka	Moscow—Kursk	24
Moscow—Liubertzi	Moscow—"Lenin"	21
Leningrad—Oranienbaum	October	40
Total put into operation during 1933		197
Total as at Jan. 1, 1934		350
1934		
Reutovo—Balashikha	Moscow—Kursk	13
Liubertzi—Bykovo	Moscow—"Lenin" 1)	11
Butovsk Belt	Moscow—Kursk	6
Total as at Jan. 1, 1935		379
1935		
Goroblagodatsk—Sverdlovsk	"Kaganovich" 1)	194
Zaporozhie—Dolishevo	"Stalin" 1)	190
Tbilissi (Tiflis)—Khashuri	Transcaucasian	120
Bykovo-Ramensk	Moscow—"Lenin" 1)	12
Krasnoye Selo—Ligovo	October	12
Total as at Jan. 1, 1936		907

Note. All figures referring to operating length are exclusive of lines in temporary operation. By temporary operation is understood the partial or irregular running of railways by construction administrations prior to handing over the finished line to regular management.

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[1] "Kaganovich" Railway Line: formerly Perm; Moscow—"Lenin": formerly Moscow—Kazan; "Stalin": formerly Yekaterinin.

Table 5

Average Daily Car Loadings on U.S.S.R. Railways

(In terms of 2-axle cars)

Kinds of Freight	1913 [1] (U.S.S.R. boundaries)	1928	1932	1934	1935	Per cent of total 1928	Per cent of total 1932	Per cent of total 1934	Per cent of total 1935
A	1	2	3	4	5	6	7	8	9
Total loadings (inclusive of freight cars engaged in carrying passengers)	27.400	32,333	51,415	55,717	68,098	100.0	100.0	100.0	100.0
Including:									
Coal and coke	—	4,827	8,396	12,261	13,944	14.9	16.3	22.0	20.5
Petroleum products	—	1.889	3,870	4,590	5,354	5.8	7.5	8.2	7.9
Firewood	—	2.535	2.702	2,862	3,155	7.8	5.3	5.1	4.6
Building timber	—	3,053	5,569	5,431	6,758	9.4	10.8	9.7	9.9
Mineral building materials	—	2,940	7,527 [2]	5,561 [2]	7,149 [2]	9.1	14.6	10.0	10.5
Ores	—	1.107	1.985	3,010	3,728	3.4	3.9	5.4	5.5
Ferrous metals, crude		—	—	2,274	2,607	—	—	4.1	3.8
Salt	—	408 [3]	502	659	770	1.3	1.0	1.2	1.1
Grain products	—	2,922 [4]	3.835	4,464	4,939	9.0	7.5	8 0	7.3
Peat	—	—	—	1,081	1.422	—	—	1.9	2.1
Sugar	—	—	225	269	376	—	0.4	0.5	0.6
Sugar beet	—	—	—	731	1.022	—	—	1.3	1.5
Agricultural machinery, motor vehicles and tractors	—	—	—	410	490	—	—	0 7	0.7

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[1] All-Union and local railway lines.
[2] Including fluxes.
[3] 1927-28.
[4] Including oil-seeds, oil-cake and bran.

Table 6

Freight Carried on U.S.S.R. Railways: Total and Average Run of Principal Commodities

Kinds of Freight	In terms of:	1928	1932	1934	1935
A	B	1	2	3	4
Total revenue freight	Thous. tons	156,237	267,906	317,075	388,533
	Millions ton-km.	93,389	169,270	205,746	258,066
	Average run per ton, in km.	598	632	649	664
Coal and coke	Thous. tons	30,358	56,691	81,881	94,679
	Millions ton-km.	18,676	37,512	53,870	60,979
	Average run per ton, in km.	615	662	658	644
Petroleum products	Thous. tons	8,719	17,004	20,338	22,385
	Millions ton-km.	6,348	15,143	19,419	22,823
	Average run per ton, in km.	728	891	955	1,020
Building timber	Thous. tons	17,392	32,394	32,431	42,196
	Millions ton-km.	11,673	22,075	24,099	33,842
	Average run per ton, in km.	671	687	743	802
Firewood	Thous. tons	12,748	13,880	15,403	18,251
	Millions ton-km.	3,436	3,514	3,772	4,659
	Average run per ton, in km.	269	253	245	255
Ores 1)	Thous. tons	7,018	12,725	20,007	25,972
	Millions ton-km.	2,782	6,713	10,782	15,996
	Average run per ton, in km.	397	528	539	616
Ferrous metals	Thous. tons	5,692	9,492 3) 10,710	12,696 3) 14,020	— 19,118
	Millions ton-km.	4,479	8,595 3) 9,792	— 13,512	— 18,743
	Average run per ton, in km.	786	905 3) 914	— 963	— 980
Principal mineral building materials 2)	Thous. tons	13,728	24,678	20,713	29,401
	Millions ton-km.	3,753	8,685	7,910	11,202
	Average run per ton, in km.	273	352	382	381
Grain products	Thous. tons	15,523	23,767	25,718	30,024
	Millions ton-km.	14,738	17,684	17,481	20,634
	Average run per ton, in km.	949	744	680	687

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1) 1932—1935 figures include all kinds of ore; 1928 figures include iron and manganese ore only.

2) 1932—1935 figures are exclusive of fluxes; 1928 figures include same.

3) Numerator exclusive of rails; denominator includes rails.

Table 7

Railway Freight Carried in the U.S.S.R.: By Principal Commodity Groups

(In thousands of tons)

Commodity Groups	1928	1932	1934	1935
A	1	2	3	4
Total revenue freight carried	**156,237**	**267,906**	**317,075**	**388,533**
Including:				
A. Products of mines and manufactures				
I. Fuel and illuminating oils				
1. Coal and coke	30,358	56,691	81,881	94,679
2. Peat	893	2,835	4,914	6,063
3. Petroleum products	8,719	17,004	20,338	22,385
a) Heavy oils	5,764	10,766	12,906	13,837
b) Light oils	2,955	6,238	7,432	8,548
II. Ore	—	12,725	20,007	25,972
Including: a) Iron ore	7,018	11,356	17,159	22,693
b) Manganese ore		1,020	2,197	2,566
III. Crude iron and steel (exclusive of rails)	5,692	9,492[1] 10,710	12,696[1] 14,020	— 19,118
IV. Principal mineral building materials [2]	13,728	26,474	26,457	36,940
1. Cement	—	3,011	2,943	3,877
2. Bricks	—	6,421	5,742	8,405
3. Building stone and limestone [2]	—	15,343	16,179	22,605
4. Lime	—	1,699	1,593	2,053
V. Machinery, motor vehicles and tractors	1,008	2,273	2,112	2,589
VI. Chemical products				
1. Fertilizers	405	1,634	2,408	3,209
VII. Salt	2,336	2,988	3,506	4,503
VIII. Textiles				
1. Textile fabrics	715	511	525	—
IX. Products of treated industrial crops				
1. Sugar (granulated and loaf)	1,826	1,546	1,683	2,498
2. Vegetable oils	310	434	352	—
B. Products of agriculture				
I. Grain products	15,523	23,767	25,718	30,024
1. Rye	1,768	4,918	4,509	—
2. Wheat	4,578	5,143	6,899	—
3. Oats	1,811	2,133	3,441	—
4. Barley	499	998	1,438	—
5. Flour and meal	4,836	5,949	9,431	—
6. Other grain products	2,031	4,626		—
II. Industrial crops				
1. Potatoes	1,343	2,637	2,993	—
2. Sugar beet	2,857	3,083	4,762	—
3. Oil seed	1,283	1,793	1,485	—
4. Flax and hemp fiber	—	213	220	—
5. Cotton	827	828	893	1,021
III. Animals and animal products				
1. Cattle	626	585	526	—
2. Butter	108	104	147	—
3. Meat (every description)	370	—	357	—
C. Products of fisheries	823	907	1,046	—
D. Timber products	30,140	46,274	47,834	60,447
1. Firewood	12,748	13,880	15,403	18,251
2. Building timber	17,392	32,394	32,431	42,196
a) Round timber	—	18,239	17,990	22,833
b) Sawn timber and sleepers	—	14,155	14,441	19,363

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[1] Numerator: exclusive of rails; denominator: inclusive of rails.

[2] Including fluxes.

Table 8

Passengers Carried on U.S.S.R. Railways

Indices	In terms of:	Year 1913 (U.S.S.R. boundaries)	1928	1932	1934	1935
A	B	1	2	3	4	5
I. Revenue passengers carried						
Total—on all lines	Thousands	184,800	291,118	967,053	945,206	919,121
1. Long-distance traffic	"	125,500	15,203	45,751	37,604	35,972
2. Local "	"		118,888	257,322	220,716	192,138
3. Suburban "	"	59,300	157,027	663,980	686,886	691,011
II. Total passenger runs						
Total—all lines	Millions of passenger-km.	25,215	24,484	83,748	71,421	67,936
1. Long-distance	"	23,674	11,499	40,805	33,805	33,113
2. Local	"		9,146	26,191	20,754	18,023
3. Suburban	"	1,541	3,839	16,752	16,862	16,800
III. Average journey per passenger						
Total—all lines	Kilometers	136	84	87	76	74
1. Long-distance	"	189	756	892	899	921
2. Local	"		77	102	94	94
3. Suburban	"	26	24	25	25	24

Table 9

Rolling Stock: Availability and Performance

Indices	In terms of:	1913	1928	1932	1934	1935
A	B	1	2	3	4	5
I. Availability and run of rolling stock (all kinds of traffic)						
1. Average daily number of available locomotives at disposal of railroads	Thousands	16.8	15.1	17.9	19.4	20.3
2. Total run of locomotives	Thous. of loco-km.	518.285	485,483	804,543	921,790	989,690
3. Total run of trains	Thous. of train-km.	381,862	339,353	545,498	634,862	666,358
4. Total run of cars (all trains)	Millions of car-axle-km.	23,394	26,129	42,309	50,552	56,394
II. Availability and run of locomotives and cars; performance of locomotives, cars and trains in freight traffic						
1. Average daily number of freight type locomotives available	Thousands	—	12.5	14.9	16.0	—
2. Average drawbar tractive power of freight type locomotives	Tons	8.6[1])	11.2[2])	12.1[3])	12.5[3])	12.9[3])
3. Average daily number of freight type cars available	Thousands (in 2-axle car expression)	397.2	472.0	545.8	565.2	604.6
4. Total run of locomotives	Thousands of loco-km.	—	268,467	446,930	527,290	611,454
5. Total run of trains	Thousands of train-km.	211,870	218,813	320,322	386,219	449,987
6. Total run of cars	Millions of car-axle-km.	17,093	21,352	33,424[4])	40,979[4])	47,665[4])
III. Availability and run of locomotives and cars; performance of locomotives, cars and trains in passenger traffic						
1. Average daily number of passenger type locomotives available	Thousands	—	2.6	3.0	3.4	—
2. Average drawbar tractive power of passenger type locomotives	Tons	7.5[1])	8.4[2])	8.57[3])	8.61[3])	8.8[3])
3. Average daily number of passenger type cars available	Thousands	—	22.9	28.0	30.7	32.3
4. Total run of locomotives	Thous. of loco-km.	—	118,277	231,012	251,700	222,265
5. Total run of trains	Thous. of train-km.	157,032	110.589	209,181	228,572	197,223
6. Total run of cars	Millions of car-axle-km.	5.600	4,240	7,944	8,353	7,566

Note. All data in this Table refer to standard gauge steam railways.

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[1]) As at Jan. 1, 1914.
[2]) As at Oct. 1, 1928.
[3]) As at end of year.
[4]) Exclusive of run with one-car trains.

Utilization of Railway Rolling Stock in the U.S.S.R.

Table 10

Indices	In terms of:	1913 (within the boundaries of the former Russian Empire)	1928	1932	1934	1935
A	B	1	2	3	4	5
Average daily car loadings	2-axle cars	27,400 1)	32,333	51,415	55,717	68,098
Total ton-kilometers: a) Gross	Millions of ton-km.	170,230 2)	228.927	406,206	490,092	563,063
b) Net (operating)		—	—	180,337	220,999	271,058
Utilization of locomotives and cars in freight traffic						
Average daily freight run of locomotives (excluding pusher-service) in both directions	Km.	—	$\frac{137.5}{-}$	$\frac{164.6^{3)}}{146.1}$	$\frac{168.5^{3)}}{150.1}$	$\frac{189.1^{3)}}{-}$
Average useful run of freight locomotive in freight train service (between two consecutive issues from divisional roundhouse)	„	—	—	220.7	226.6	224.2
Average useful run of freight locomotive (every description of service)	Hours	—	—	32.1	32.4	28.4
Average daily run of operating freight cars (revenue traffic)	Km.	75.0	84.6	97.3	117.5	128.4
Average useful run (between loading and unloading) per operating freight car (revenue traffic)	„	—	892.4	909.6	1,028.8	987.0
Average run per loaded freight car (revenue traffic)	„	—	636.6	664.3	731.6	719.0
Average useful operating time (between loading and unloading) per freight car (revenue traffic)	Days	—	10.56	9.35	8.75	7.69
Average load carried per running freight car-axle (revenue traffic, both directions)	Tons	5.35	6.25	7.28	7.51	7.75
Per cent of empty run of freight cars to total run	Per cent	28.6	28.7	27.1	28.9	27.2
Average gross weight of freight train (both directions)	Tons	—	817	966	994	1,035
Same, cargo-carrying direction	„	—	—	1,085	1,135	1,173
Average net weight of freight train (both directions)	„	302	420	543	556	590
Same, cargo-carrying direction	„	—	—	682	713	742
Coefficient of utilization of freight locomotive tractive power (both directions)	Per cent	—	83.1	81.7	82.9	—
Same, cargo-carrying direction	„	—	89.9	87.1	89.1	—
Average number of axles per freight train (both directions)	Axles	79.8	97.4	104.3	106.1	105.9
Average operating speed of freight trains, including stops (exclusive of one-car trains)	Km. per hour	—	14.1	14.3	14.2	15.7
Average running speed of freight trains.	„	—	21.1	23.0	22.5	24.4
Utilization of locomotives and cars in passenger traffic						
Average daily run of locomotives (excluding pusher-service), both directions	Km.	—	173.7	$\frac{251.5^{3)}}{223.6}$	$\frac{246.4^{3)}}{220.0}$	$\frac{243.8^{3)}}{-}$
Average useful run of locomotive (between two consecutive issues from divisional roundhouse)	„	—	—	285.9	283.6	275.0
Average daily run of operating passenger car (all trains)	„	—	285.8	326.3	326.1	290.7
Average number of axles per passenger train	Axles	36.4	37.9	38.0	36.5	38.4
Average operating speed of passenger trains (including stops)	Km. per hour	—	—	28.73	28.99	29.0

Note. All figures reported in this Table (except car loadings) refer to standard gauge steam railways.

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1) Within the U. S. S. R. boundaries (estimated). 2) Excluding the Ussuri and Kovel-Vladimir-Volynsk railway lines. 3) Numerator: stops for washing not taken into account; denominator: stops for washing accounted for.

Table 11

Consumption of Fuel on U.S.S.R. Railways

(In physical units; exclusive of fuel allotted to employees)

Kinds of Fuel	In terms of:	1913 1)	1928-29	1932	1934	1935
A	B	1	2	3	4	5
Coal	Thous. of tons	7,501	10,686	16,789	20,898	23,816
Oil fuel	"	1,782	2,183	2,573	2,206	2,288
Fuel oil (mazout)	"	—	2,148	2,530	—	—
Crude petroleum	"	—	32	41	—	—
Kerosene, motor spirit (benzine), gasoline	"	—	3	2	—	—
Firewood	Thous. of cubic meters	7,732	—	4,739	4,127	4,039
Special kinds of fuel	Thous. of tons	—	49	15	14	14
Coke	"	—	22	5	7	7
Forge coal	"	—	19	3	—	—
Charcoal	"	—	8	7	7	7
Peat	"	—	—	10	5	—
Total consumption of fuel comprises consumption of fuel for locomotive-firing, as follows:						
Coal fuel	Thous. of tons	—	9,216	15,615	19,365	22,007
Fuel oil (mazout)	"	—	1,912	2,429	2,035	2,094
Firewood	Thous. of cubic meters	—	2,218	3,021	2,084	1,874

Table 12

Consumption of Fuel on U.S.S.R. Railways

(In thousands of tons conventional fuel, 7,000 cal.) 2)

Kinds of Fuel	1928-29	1932	1934	1935
A	1	2	3	4
Total	**8,778**	**12,965**	**14,759**	**16,449**
Coal	6,226	9,678	11,905	—
Oil fuel	2,068	2,705	2,319	—
Fuel oil (mazout)	2,048	2,644	—	—
Crude petroleum	18	58	—	—
Kerosene, motor spirit (benzine), gasoline	2	3	—	—
Firewood	479	562	508	—
Special kinds of fuel	5	14	—	—
Coke	4	5	—	—
Forge coal	1	3	—	—
Charcoal	—	6	—	—
Peat	—	6	—	—
Total consumption of fuel comprises consumption of fuel for locomotive-firing, as follows:	7,492	11,443	12,831	14,210
Per cent of total	85.4	88.3	86.9	86.4
Coal	5,429	8,659	10,560	11,894
Fuel oil	1,828	2,503	2,079	2,146
Firewood	235	281	192	170

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1) All-Union railway lines, within U. S. S. R. boundaries.

2) According to coefficients effective in 1935.

Table 13

Efficiency of Locomotive Fuel Consumption

(In tons of conventional fuel, 7,000 cal.)

Indices	1913 (U.S.S.R. boundaries)	1928-29	1932 [1]	1934	1935
A	1	2	3	4	5
I. Tons of fuel consumed per 100 locomotive-kilometers (standard gauge)					
Total	1.16	1.43	$\frac{1.42}{1.44}$	1.39	1.43
Passenger traffic	—	1.11	$\frac{1.17}{1.15}$	1.08	1.08
Freight traffic	—	1.67	$\frac{1.69}{1.72}$	1.63	1.63
Shunting	—	1.07	$\frac{1.07}{1.09}$	1.09	1.08
II. Tons of fuel consumed per 10,000 gross ton-kilometers					
Total					
Standard and narrow gauge	0.348	0.292	$\frac{0.282}{0.286}$	0.262	0.252
Standard gauge only	—	0.291	$\frac{0.282}{0.285}$	0.262	0.252
Including:					
Passenger traffic	—	0.277	$\frac{0.300}{0.296}$	0.281	0.273
Freight traffic	—	0.247	$\frac{0.224}{0.229}$	0.221	0.224

Table 14

Revenues and Expenditures of U.S.S.R. Railways

Items	In terms of:	1927-28	1932	1934	1935
A	B	1	2	3	4
A. Total operating revenue	Millions of rubles	1,854.8 [2]	5,488.5	6,091.7	6,830.4
Transportation revenue	"	1,771.2	5,253.2	5,815.6	6,453.1
I. Freight traffic, including special charges	"	1,425.7	3,068.9	3,375.8	4,275.0
II. Passenger traffic	"	317.8	2,049.3	2,175.7	1,964.6
III. Baggage and freight baggage	"	20.3	120.6	244.4	195.6
IV. Mail	"	7.3	14.4	19.7	17.9
Other sources of revenue	"	80.6	235.3	276.1	377.3
Average rate of revenue:					
Per ton-km revenue freight G. V. and P. V.	Kopeks	$\frac{1.52^{3)}}{4.63}$	1.61	1.48	1.50
Per passenger-km, all trains	"	1.35	2.45	3.05	2.89
B. Total operating expenses (including transportation expenses and expenses for capital repairs and renovating)	Millions of rubles	1,469.1	3,373.1	4,542.3	—

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[1] Numerator figures comparable with 1934 and 1935; denominator figures comparable with 1928-29.

[2] Total operating revenue exceeds the sum of "transportation revenue" and all other revenues in the amount of all moneys classed as "Revenue of the Central Administration" (2,942,000 rubles).

[3] Numerator: low-speed (P. V.) freight· denominator: high-speed (G. V.) freight.

Table 15

Operating Expenses of Railways Itemized, as of 1933-1934

(In millions of rubles, excluding expenses for capital repairs and relining)

Branch of Service	Total expenditures in 1933	1934												
		Total expenditure	Wages (including extras)			Supplies	Fuel	Other expenditures	Per cent of total for each branch of service					
									Wages (including extras)			Supplies	Fuel	Other expenditures
			Total	Basic wages (pay-roll)	Extras—social insurance, etc. (13.5 per cent)				Total	Basic wages (pay-roll)	Extras—social insurance, etc. (13.5 per cent)			
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Total operating expenses	3,114	3,917	2,468	2,174	294	288	537	624	63.0	55.5	7.5	7.4	13.7	15.9
I. Operating service	639	804	683	602	81	35	6	80	84.9	74.9	10.0	4.4	0.8	9.9
1. Train crew expenditures	140	185	170	150	20	6	1	8	91.9	81.1	10.8	3.2	0.5	4.4
2. Maintenance of divisions	64	58	45	40	5	1	0	12	77.6	69.0	8.6	1.7	0	20.7
3. Maintenance of stations	435	561	468	412	56	28	5	60	83.4	73.4	10.0	5.0	0.9	10.7
II. Locomotive service	1,291	1,524	756	666	90	108	519	141	49.6	43.7	5.9	7.1	34.0	9.3
III. Car service	414	560	400	352	48	99	8	53	71.4	62.8	8.6	17.7	1.4	9.5
IV. Permanent ways and structures	367	543	429	378	51	35	4	75	79.0	69.6	9.4	6.4	0.7	13.9
V. Communications service	82	103	89	78	11	6	0	8	86.4	75.7	10.7	5.8	0	7.8
VI. Electrification department	8	14	8	7	1	1	0	5	57.1	50.0	7.1	7.1	0	35.8
VII. Administrative departments	83	111	79	70	9	2	0	30	71.2	63.1	8.1	1.8	0	27.0
VIII. General expenses	230	258	24	21	3	2	0	232	9.3	8.1	1.2	0.8	0	89.9

Table 16

New Railway Rolling Stock

Description	In terms of:	1927-28	1932	1934	1935
A	B	1	2	3	4
A. Locomotives	Physical units	458	829	1,066	1,495
I. Freight locomotives	„	308	681	844	1,123
Including: "FD" series	„	—	1	181	521
II. Passenger locomotives	„	150	148	222	372
B. Electric locomotives (including imported)	„	—	10	14	38
C. Diesel locomotives (including imported)	„	—	1	7	5
D. Freight cars					
I. Supplied by industrial plants	2-axle cars Physical units	12,274 9,556	16,023 11,280	26,830 19,024	85,294 69,271
Box cars, 4—axle	Physical units	2,286	—	—	2,867
„ „ 2—axle	„	5,012	—	—	—
Hopper cars, 4—axle	„	—	779	3,127	4,362
„ „ 2—axle	„	—	1,235	—	—
Gondola cars, 4—axle	„	—	—	806	1,800
Flat cars, 4—axle	„	—	—	30	2,550
„ „ 2—axle	„	1,826	4,669	10,247	50,451
Tank cars, 4—axle	„	432	2,496	2,438	3,833
„ „ 2—axle	„	—	633	971	2,797
Refrigerator cars, 4—axle	„	—	1,468	1,405	611
II. Constructed at railway plants	2-axle cars	1,537 [1]	3,199	—	—
E. Passenger cars					
Total (excluding electric cars)	Physical units	520 [2]	1,048 [2]	1,432 [2]	797
Electric motor-unit cars	„	—	11	51	82

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[1] Physical units.

[2] In addition to this, cars constructed at plants controlled by the People's Commissariat of Railway Transport amounted to 50 in 1927-28; 100 in 1932; 9 in 1934.

Table 1

Freight Carried on Interior Waterways

Indices	In terms of:	1928	1932	1934	1935
A	B	1	2	3	4
Total Freight Carried					
a) Total freight carried	Thousands of tons	18,332.7	46,937.9	52,683.4	64,707.7
b) Total cruise of freight	Millions of ton-km	15,901.6	25,078.1	28,987.4	33,932.4
c) Average number of kilometers travelled per ton freight	Kilometers	867	534	550	524
I. Freight and Passenger Ships (with baggage)					
a) Total freight carried	Thousands of tons	2,227.0	2,822.8	3,272.2	3,510.7
b) Total cruise of freight	Millions of ton-km	1,242.8	1,235.9	1,672.1	1,958.5
c) Average number of kilometers travelled per ton freight	Kilometers	558	438	511	558
II. Freight Carried by Towed River Craft					
A. Dry Cargoes					
a) Total freight carried	Thousands of tons	6,666.2	17,090.1	20,257.1	25,816.1
b) Total cruise of freight	Millions of ton-km	3,606.3	5,906.2	8,030.7	11,145.3
c) Average number of kilometers travelled per ton freight	Kilometers	541	346	396	432
B. Tanker Cargoes					
a) Total freight carried	Thousands of tons	4,794.4	7,405.1	6,777.6	6,976.8
b) Total cruise of freight	Millions of ton-km	7,915.1	11,414.7	9,665.2	9,387.5
c) Average number of kilometers travelled per ton freight	Kilometers	1,651	1.541	1,426	1,346
III. Freight Carried by Towed Rafts					
a) Total freight carried	Thousands of tons	4,645.1	19,619.9	22,376.5	28,404.1
b) Total cruise of freight	Millions of ton-km	3,137.4	6,521.3	9,619.3	11,441.1
c) Average number of kilometers travelled per ton freight	Kilometers	675	332	430	403

Table 2

Freight Carried on Inland Waterways: By Commodity Groups

Commodities	Total freight carried (thousands of tons)				Total cruise of freight (millions of ton-km.)				Average number of kilometers travelled per ton freight (kilometers)			
	1928	1932	1934	1935	1928	1932	1934	1935	1928	1932	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
Total freight carried	18,332.7	46,937.9	52,683.4	64,707.7	15,901.6	25,078.1[1]	28,987.3	33,932.4	867	534	550	524
Timber	8,299.1	26,309.7	30,610.7	38,053.7	4,621.9	8,920.1	12,827.0	15,153.0	557	339	419	398
a) By boats	3,654.0	6,690.6	8,234.2	9,649.6	1,484.5	2,399.2	3,207.7	3,711.9	406	359	378	385
b) By rafts	4,645.1	19,619.1	22,376.5	28,404.1	3,137.4	6,520.9	9,619.3	11,441.1	675	332	430	403
Petroleum products	4,801.8	7,436.8	6,851.5	7,057.7	7,916.6	11,425.5	9,701.0	9,424.3	1,649	1,537	1,416	1,335
Grain stuffs	1,202.8	2,563.5	3,480.5	4,620.3	657.5	1,019.0	1,508.5	2,426.7	547	398	433	525
Mineral building materials.	1,183.3	5,434.3	5,110.6	6,759.0	—	1,172.4	1,278.0	1,725.3	—	216	250	255
Including: Cement	—	326.5	365.0	405.8	—	291.6	370.8	373.2	—	893	1,016	920
Salt	686.8	778.1	1,083.0	1,582.8	829.4	844.7	1,238.2	1,943.4	1,208	1,085	1,143	1,228
Coal	149.1	583.7	905.1	1,445.5	—	174.1	323.0	766.2	—	298	357	530
Fruit and vegetables	—	—	697.4	686.6	—	—	224.2	191.5	—	—	321	279
Crude metals (ferrous and non-ferrous)	172.3	298.7	435.0	482.5	—	157.2	277.5	310.6	—	526	638	644
Fish	193.5	209.7	245.0	238.4	—	155.5	218.0	250.4	—	741	890	1,050
Cotton	27.3	156.5	95.8	115.8	—	48.5	45.4	46.2	—	310	473	399
Fertilizers	—	55.7	68.3	105.2	—	37.8	48.0	110.2	—	679	703	1,048

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[1] Exclusive of roadstead cruises of lighters carrying petroleum products (1,182.3 millions of ton-km).

Table 3

Freight Carried by River Transport Administrations, as of 1934 and 1935

(Thousands of tons)

River Transport Administrations	Total freight carried		Including:											
			Petroleum products		Timber carried by boats		Timber floated on rafts		Grain		Mineral building materials		Salt	
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Total	**52,683.4**	**64,707.7**	**6,851.5**	**7,057.7**	**8,234.2**	**9,649.6**	**22,376.5**	**28,404.1**	**3,480.5**	**4,620.3**	**5,110.6**	**6,759.0**	**1,083.0**	**1,582.8**
Upper Volga	4,485.4	5,492.5	109.4	96.0	959.4	1,245.9	2,427.8	2,908.0	113.8	201.3	447.6	550.4	7.1	15.3
Middle Volga	2,118.3	2,554.4	61.2	33.6	407.9	445.3	365.8	444.6	340.4	612.4	604.4	671.1	4.4	2.8
Lower Volga	7,746.7	9,066.5	6,056.3	6,235.6	86.1	88.0	27.6	332.7	209.1	298.5	98.6	133.5	887.8	1,325.7
Moscow—Oka	2,289.1	3,069.8	1.2	2.6	569.9	752.2	481.4	485.9	44.5	46.6	712.4	1,236.7	2.6	3.6
Kama	7,052.5	9,797.5	13.0	26.5	351.1	385.5	5,222.2	7,493.3	715.3	898.7	113.7	179.2	28.6	27.0
Ural	127.0	175.4	1.6	1.0	40.9	29.0	9.1	7.2	16.2	42.4	3.3	2.3	2.8	15.5
North Western	9,842.3	11,389.6	209.8	72.0	2,712.0	3,095.2	4,396.1	5,219.2	62.5	93.8	1,895.2	2,386.4	4.9	1.1
Northern	9,291.6	10,849.4	7.5	9.7	1,121.0	1,244.3	7,721.3	9,001.5	111.1	155.9	92.2	148.4	13.4	16.8
Pechora	226.2	316.7	3.7	4.9	17.7	17.6	139.5	172.9	28.6	36.0	5.9	5.0	2.0	1.3
Dnieper—Dvina	827.4	1,035.7	0.9	0.6	480.4	538.1	91.0	185.0	37.2	51.1	57.8	84.6	1.2	3.9
Dnieper	3,106.9	3,968.6	62.8	107.8	372.0	498.6	633.7	918.0	421.2	534.0	768.2	821.7	46.5	71.3
Don—Kuban	1,176.0	1,442.9	58.8	63.2	117.1	177.3	48.6	55.1	280.3	363.8	151.0	268.2	18.6	21.2
Kura	184.7	202.9	39.2	41.4	5.1	8.7	—	—	25.9	15.6	44.9	53.7	1.2	0.6
Amu—Darya	336.7	314.5	34.6	32.6	16.4	28.4	5.4	18.8	139.4	96.7	4.8	2.1	0.6	0.4
Issyk—Kulsk		50.0		2.4		2.8		—		35.0		—		0.5
Aralsk		78.7		3.9		1.9		—		59.8		0.5		1.0
Balkhash—Ilii	111.3	138.2	4.1	3.4	6.7	8.1	25.0	20.7	9.2	10.8	7.5	19.8	0.3	0.2
West Siberian	1,052.1	1,149.0	30.9	34.7	505.8	546.7	—	47.1	341.4	308.2	11.4	17.8	15.6	22.1
Lower Irtysh	916.7	1,046.6	48.3	59.6	347.8	401.9	176.3	161.2	217.1	279.5	2.9	3.8	25.4	29.8
Upper Irtysh	256.2	265.8	8.2	10.1	3.3	7.6	—	—	55.9	45.9	23.5	23.4	3.6	1.9
Yenissei	305.9	434.6	9.9	11.4	87.3	87.8	31.5	116.9	102.5	134.5	1.2	1.3	2.6	3.7
East Siberian	95.3	247.1	0.3	2.1	15.9	20.0	27.7	43.0	22.1	40.7	10.6	67.4	1.7	1.4
Selenga	88.8	200.0	10.2	7.3	—	6.6	7.9	91.4	33.0	45.5	1.0	14.5	0.7	0.6
Amur	959.8	1,305.1	76.8	191.1	9.1	10.7	526.6	645.4	128.4	185.6	51.1	64.8	9.5	13.4
Lena	86.5	116.2	2.8	4.2	1.3	1.6	14.0	36.2	25.4	28.0	1.4	2.4	1.9	1.7

Table 4

Passenger Traffic on Internal Waterways, as of 1934 and 1935

River Transport Administrations	Total passengers carried (thousands)		Total cruise of passengers (millions of pass—km)		Average cruise per passenger (kilometers)	
	1934	1935	1934	1935	1934	1935
A	1	2	3	4	5	6
Total	**41,238.8**	**41,459.6**	**3,014.2**	**2,895.3**	**73**	**70**
Upper Volga	4,542.6	4,478.0	369.0	381.0	81	85
Middle Volga	2,608.3	2,562.6	284.4	259.3	109	101
Lower Volga	5,342.3	5,787 3	448.6	363.6	84	63
Kama	3,378.9	3,483.2	467.8	560.3	138	161
Moscow—Oka	2,409.0	2,333.9	156.1	131.2	65	56
Moscow—Suburban	2,816.2	3,986.8	33.7	37 1	12	9
Ural	31.4	29.9	17.6	15.0	561	502
North Western	4,344.3	3,659.2	159.5	133.7	37	37
Northern	5,074.2	5,387.6	222.8	216.3	44	40
Pechora	49.0	37.6	9.2	7.1	188	189
Dnieper	5,937.6	5,316.8	269.0	209.2	45	41
Dnieper—Dvina	747.5	673.9	46.5	44.8	62	66
Don—Kuban	1.601.5	1,303.8	81.4	63.2	51	48
Kura	56.6	36.3	7.0	5.2	124	143
Central Asia	48.0	52.5	13.2	14.1	276	268
Balkhash—Ilii	9.6	11.2	3.4	4.0	349	357
West Siberian	1,119.4	1,090.7	138.0	134.7	123	123
Upper Irtysh	96.2	103.9	27.2	30.5	284	294
Lower Irtysh	427.7	395.0	89.8	101.2	210	256
Yenissei	268.7	313.3	48.9	49.6	182	158
East Siberian	45.3	52.9	9.4	10.4	208	197
Selenga	9.8	12.2	1.2	1.7	122	139
Amur	218.0	310.1	87.3	97.8	400	315
Lena	56.7	41.0	23.2	24.3	409	566

Table 5

Inland Navigation Fleet, as of January 1, 1934 and 1935

(People's Commissariat of Water Transport)

Description	Total				Including: Motor ships (for the Steam and Motor Fleet) and steel ships (for Towed and Floating River Craft)			
	1934		1935		1934		1935	
	Number of ships	Indicated h. p. or tons[1])	Number of ships	Indicated h. p. or tons[1])	Number of ships	Indicated h. p. or tons[1])	Number of ships	Indicated h. p. or tons[1])
A	1	2	3	4	5	6	7	8
I. Steam and Motor Ships								
Total	2,716	553.9	2,859	588.9	650	66 8	697	76.9
Freight and passenger ships	629	180.5	642	182.5	88	25.2	100	26.6
Tugs	1,343	328.9	1,451	356.7	65	15.7	103	21.0
Freighters for tanker cargoes	14	3.0	12	2.6	10	1.8	8	1.4
Freighters for dry cargoes	25	9.8	42	13.1	16	7.4	33	10.8
Steam and motor launches	242	10.1	268	11.9	157	7.3	170	8.4
Service and auxiliary craft	463	21.6	444	22.1	314	9.5	283	8.7
II. Towed and Floating River Craft[1])								
Total [2])	$\frac{7{,}519}{797}$	5,233.5	$\frac{7{,}406}{806}$	5,410.0	$\frac{1{,}038}{44}$	1,792.0	$\frac{1{,}109}{47}$	1,916.6
For dry cargoes								
a) Freight	5,898	3,707.6	5,792	3,766.3	555	421.4	568	421.5
b) Passenger	27	1.7	29	1.7	17	1.2	19	1.3
For tanker cargoes	495	1,411.6	545	1,536.0	415	1,364.6	466	1,489.0
Other towed craft	1,099	112.6	1,040	106.0	51	4.8	56	4.8
Landing-stages (wharves)	797	—	806	—	44	—	47	—

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[1]) Figures for "Steam and Motor Ships" are given in thousands indicated horse-power; figures for "Towed and Floating River Craft", in thousands of tons.

[2]) Numerator: exclusive of landing-stages; denominator: number of landing-stages.

Table 6

Length and Equipment of Inland Waterways

Indices	In terms of:	1928	1932	1933	1934	1935
A	B	1	2	3	4	5
Length of navigable waterways in operation	Thousands of km.	71.6	77.6	82.2	81.2	83.8
Length of waterways equipped with signals	„	52.1	68.2	68.8	70.8	72.7
Length of waterways with illuminated fairway	„	29.3	47.3	47.1	49.6	52.2
Length of waterways equipped with dredging machinery . . .	„	—	27.1	25.2	24.1	25.8
Number of dredging machines in operation	Units	101	149	152	143	151
Total capacity of dredging machines	Indicated h. p.	27,006	39,167	40,141	36,322	37,042
Bottom-dredged area (sand bottom)	Thousands of cubic meters	20,086	45,876	46,104	44,783	52,850
Length of waterways equipped with bottom-cleaning machinery	Thousands of km.	—	36.6	35.1	34.1	34.6
Number of bottom-scraping machines in operation	Units	102	191	200	204	211

Table 1

Freight and Passengers Carried by Sea (All Ships)

Description	Total				Including: Coasting trade, local				Coasting trade, long-distance				Exports				Imports			
	1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A. Freight (thousands of tons)																				
Total	**33,069**	**18,416**	**34,349**	**40,638**	**11,332**	**7,467**	**14,787**	**22,844**	**571**	**222**	**433**	**860**	**15,662**	**9,336**	**17,171**	**15,873**	**5,504**	**1,391**	**1,958**	**1,061**
Including:																				
1. Petroleum products	6,148	8,318	15,738	18,724	5,240	5,371	9,885	15,317	24	22	183	329	874	2,924	5,670	3,078	10	1	—	—
2. Coal	4,882	593	2,282	3,645	1,111	139	672	1,458	63	—	2	—	20	399	1,546	2,187	3,688	54	62	0.1
3. Timber (excluding firewood)	3,887	3,464	5,923	7,174	443	292	755	1,092	—	2	15	—	3,417	3,169	5,153	6,079	27	1	—	3
4. Grain stuffs	9,475	1,718	3,410	2,978	1,088	362	762	928	72	1	13	215	8,294	1,070	2,432	1,765	21	285	203	69
5. Ores	2,114	546	832	1,282	450	36	104	367	—	—	13	31	1,617	509	714	879	47	1	1	5
6. Crude metals (ferrous and non-ferrous), and metal products	533	270	1,082	1,015	292	47	140	217	62	2	12	77	18	37	15	366	161	183	915	354
7. Mineral building materials	847	401	729	1,179	425	226	492	704	81	77	145	70	4	86	56	211	337	13	36	194
8. Machinery and implements	68	76	449	177	—	7	24	29	1	—	4	11	1	1	7	19	66	67	414	119
9. Salt	417	354	389	562	260	216	319	386	83	91	10	81	9	47	60	83	65	—	—	11
10. Sugar	354	229	219	233	193	90	105	173	97	14	14	12	64	107	54	48	—	18	47	0.5
11. Fish	259	266	451	623	127	182	355	593	10	—	—	2	10	21	18	4	112	63	79	24
B. **Passengers** (thousands) . .	—	**1,323**	**5,115**	**3,478**	—	**1,283 1)**	**5,078 1)**	**3,440 1)**	—	—	—	—	—	**23 2)**	**16 2)**	**20 2)**	—	**17 3)**	**21 3)**	**18 3)**

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1) Coasting trade, local and long-distance.
2) Passengers sailing abroad.
3) Passengers incoming from foreign countries.

Freight and Passenger Traffic
(All

Description	Black Sea		Caspian Sea				Baltic Sea			
	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935
A	1	2	3	4	5	6	7	8	9	10
A. **Freight** (thousands of tons)	**12,578.2**	**13,168.4**	**6,595.6**	**5,963.4**	**9,792.2**	**13,887.7**	**7,393.9**	**1,829.9**	**4,178.5**	**4,342.9**
Including:										
1. Petroleum products	7,218.6	6,303.7	5,129.4	5,087.8	8,482.9	12,269.3	92.8	22.6	84.7	73.5
2. Coal	220.9	798.6	0.4	0.4	0.9	2.0	3,209.7	2.6	22.9	56.2
3. Timber (excluding firewood) .	365.6	588.8	234.0	163.0	271.1	401.0	1,805.3	1,020.8	2,384.3	2,990.7
4. Grain stuffs .	2,022.8	1,884.4	321.4	176.1	218.2	205.0	669.5	133.5	193.6	299.3
5. Ores	732.7	1,124.9	1.9	—	—	0.3	3.2	9.9	1.3	86.6
6. Crude metals (ferrous and non-ferrous) and metal products	333.1	529.1	73.7	24.9	30.1	65.9	153.8	9.9	595.9	309.7
7. Mineral building materials .	456.0	598.6	34.2	20.5	49.2	125.9	376.1	78.3	145.1	28.9
8. Machinery and implements . .	133.5	56.0	0.2	4.3	11.0	16.0	28.5	3.7	218.6	71.3
9. Salt	38.5	172.7	93.1	72.9	82.8	76.9	1.4	—	3.0	69.2
10. Sugar	145.3	150.1	101.6	61.1	38.4	75.5	62.4	—	18.1	—
11. Fish	16.6	19.9	75.7	38.7	58.8	74.5	67.6	—	32.4	20.7
B. **Passengers** (thousands) .	**2,844.2**	**2,046.1**	—	**211.9**	**649.5**	**377.4**	—	**5.3**	**11.6**	**18.9**

Table 2

on U. S. S. R. Seas
Ships)

Sea of Azov		White Sea and Barenz Sea				Pacific Ocean			
1932	1935	1913	1928	1932	1935	1913	1928	1932	1935
11	12	13	14	15	16	17	18	19	20
2,588.7	2,929.7	1,776.0	2,002.3	3,080.1	4,502.0	1,430.9	2,795.0	2,537.4	2,752.9
0.6	1.5	2.0	1.3	4.7	5.0	24.4	25.6	136.0	383.1
1,669.7	1,969.6	76.0	52.6	86.1	362.8	126.8	142.1	283.0	455.3
23.0	16.6	1,481.7	1,582.8	2,282.3	3,064.9	64.3	621.7	603.4	112.4
218.5	293.6	72.1	33.7	154.6	52.1	54.8	1,047.1	605.6	536.0
88.2	26.2	—	—	7.8	41.2	15.2	—	20.7	31.3
38.4	47.2	1.9	3.3	37.2	45.3	88.0	121.3	56.3	137.0
141.9	122.3	7.8	15.0	29.6	73.9	134.7	13.3	35.7	316.0
1.2	3.0	0.1	4.8	77.4	7.0	11.0	7.0	10.2	8.2
148.2	137.6	6.8	11.7	26.1	37.8	76.5	143.1	95.2	138.5
2.0	0.8	4.5	5.7	2.1	1.9	24.4	33.4	29.5	21.2
83.7	124.5	58.9	83.8	106.3	163.4	26.9	99.6	153.1	221.1
1,248.7	732.6	—	42.9	97.1	73.3	—	114.9	263.7	229.6

Table 3

Freight Turnover of U. S. S. R. Seaports

(Thousands of tons)

Seas	Type of trade	Total				Including:							
						Outgoing shipments				Incoming shipments			
		1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935
A	B	1	2	3	4	5	6	7	8	9	10	11	12
Total freight, all seas	Total	44,396	25,452	48.647	62,901	27,200	16,603	31,835	38,574	17,196	8,849	16,812	24,327
	1. Coasting trade, local	22,185	14,283	28,679	44,162	10,968	7,045	14,231	21,842	11,217	7,238	14,448	22,320
	2. Coasting trade, long-distance	1,045	442	839	1,806	570	222	433	860	475	220	406	946
	3. Foreign trade	21,166	10,727	19,129	16,933	15,662	9,336	17,171	15,872	5,504	1,391	1,958	1,061
White Sea and Barenz Sea	Total	1,902	2,062	3.402	5,061	1,640	1,615	2,589	3,824	262	447	813	1,237
	1. Coasting trade, local	252	241	905	1,894	126	87	355	742	126	154	550	1,152
	2. Coasting trade, long-distance	16	12	43	17	8	—	18	6	8	12	25	11
	3. Foreign trade	1,634	1,809	2,454	3,150	1,506	1,528	2,216	3,076	128	281	238	74
Baltic Sea	Total	7,394	1.830	4.211	4,348	2,884	1,304	3,062	3,804	4,510	526	1,149	544
	1. Coasting trade, local	392	30	84	26	114	1	34	8	278	29	50	18
	2. Coasting trade, long distance	264	82	182	84	40	1	13	11	224	81	169	73
	3. Foreign trade	6,738	1,718	3,945	4,238	2,730	1,302	3,015	3,785	4,008	416	930	453
Black Sea	Total	14,412	6,189	15,361	17,896	10,530	4,825	12,137	12,879	3,882	1,364	3,224	5,017
	1. Coasting trade, local	5.447	1,817	5,428	9,724	2,384	861	2,712	4,880	3,063	956	2,716	4,844
	2. Coasting trade, long-distance	429	170	391	816	361	162	378	810	68	8	13	6
	3. Foreign trade	8.536	4,202	9,542	7,356	7,785	3,802	9,047	7,189	751	400	495	167
Sea of Azov	Total	5,858	877	3.304	4,546	4,773	639	2,293	2,878	1,085	238	1,011	1,668
	1. Coasting trade, local	2.486	431	1,891	3,191	1,539	205	899	1,547	947	226	992	1,644
	2. Coasting trade, long-distance	158	51	26	24	158	51	7	—	—	—	19	24
	3. Foreign trade	3,214	395	1,387	1,331	3,076	383	1,387	1,331	138	12	—	—
Caspian Sea	Total	12,918	11,609	19.241	27,444	6,465	5,815	9,650	13,787	6,453	5,794	9,591	13,657
	1. Coasting trade, local	12,644	11,390	19,033	27,166	6.322	5,691	9,543	13,584	6,322	5,699	9,490	13,582
	2. Foreign trade	274	219	208	278	143	124	107	203	131	95	101	75
Pacific Ocean	Total	1.912	2.885	3.128	3,606	908	2,405	2,104	1,402	1,004	480	1,024	2,204
	1. Coasting trade, local	964	374	1,338	2,161	483	200	688	1,081	481	174	650	1,080
	2. Coasting trade, long-distance	178	127	197	865	3	8	17	33	175	119	180	832
	3. Foreign trade	770	2.384	1,593	580	422	2,197	1,399	288	348	187	194	292

Table

Freight Turnover: By Principal Commercial Seaports

(Thousands of tons)

Ports	Total freight handled				Including: Coasting trade, local				Including: Coasting trade, long-distance				Including: Exports				Including: Imports			
	1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935	1913	1928	1932	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Total freight handled, at all ports	44,396	25,452	48,647	1) 62.901	22,185	14.283	28,679	44,162	1,045	442	839	1,806	15,662	9,336	17,171	15,872	5,504	1,391	1,958	1,061
Including:																				
1. Archangel	1,266	1,220	1,535	2,282	70	82	168	436	13	9	17	2	1,060	1,096	1,349	1,844	123	33	1	—
2. Murmansk	—	288	794	1,362	—	38	148	740	—	3	19	15	—	1	391	533	—	246	236	74
3. Leningrad	7,305	1,830	4.132	4,320	385	30	36	6	265	82	182	84	2,648	1.302	2.984	3,771	4,007	416	930	459
4. Odessa	4.174	865	2.503	3.771	1.903	472	1.514	2,803	238	28	59	185	1.461	180	663	682	572	185	267	101
5. Nikolayev	2,100	286	1,123	1,554	258	34	266	360	22	—	—	132	1,796	240	836	1,056	24	12	21	6
6. Kherson	1.114	52	406	685	292	50	215	435	—	—	—	—	818	—	191	250	4	2	—	—
7. Theodosia	425	47	413	735	128	41	177	231	—	—	3	—	272	2	233	504	25	4	—	—
8. Novorossisk	1,914	1,662	2,286	2.302	466	506	568	1,147	58	80	148	157	1,308	982	1,396	992	82	94	174	6
9. Tuapse	78	87	2,429	1,507	78	77	980	971	—	—	68	133	—	9	1.381	403	—	1	—	—
10. Poti	1,072	490	749	1,240	355	173	340	633	1	1	—	--	711	272	408	607	5	44	1	—
11. Batumi	1,495	2,288	4,602	5.062	285	100	560	2,162	21	20	111	197	1,157	2,112	3,901	2,650	32	56	30	53
12. Kerch	304	115	513	620	268	109	507	602	25	5	—	—	11	—	6	18	—	1	—	—
13. Mariupol	1,914	580	2.033	2,479	1,338	145	663	1,169	98	46	26	24	361	383	1,344	1,286	117	6	—	—
14. Baku	5,592	4,399	6.662	10.445	5,377	4,706	6,461	10,179	—	—	—	—	118	109	104	195	97	84	97	71
15. Makhach-Kala	647	1,299	2,524	5,759	647	1,295	2,524	5,757	—	—	—	—	—	—	—	2	—	4	—	—
16. Astrakhan	5,491	4.599	7,186	6.609	5.461	4 587	7.179	6,598	—	—	—	—	17	9	3	7	13	3	4	4
17. Krasnovodsk	555	810	1,544	1,658	546	806	1.543	1.658	—	—	—	—	3	3	—	—	6	1	1	—
18. Vladivostok	1,321	2.373	1,822	2,021	466	282	637	864	168	127	184	797	391	1,782	809	72	296	182	192	288

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1) Exclusive of Alexandrovsk-on-Sakhalin and Petropavlovsk-on-Kamchatka.

Table 5

Passenger Traffic at Seaports: By Seas

(In thousands)

Seas	Type of traffic	Total			Including:					
					Outgoing passengers			Incoming passengers		
		1928	1932	1935	1928	1932	1935	1928	1932	1935
A	B	1	2	3	4	5	6	7	8	9
Total passengers, all seas	Total	2,362.3	10,100.5	6,802.3	1,176.6	5,021.7	3,345.2	1,185.7	5,078.8	3,457.1
	1. Internal traffic	2,322.3	10,063.9	6,763.9	1,153.3	5,005.4	3,325.0	1,169.0	5,058.5	3,438.9
	2. Foreign „	40.0	36.6	38.4	23.3	16.3	20.2	16.7	20.3	18.2
White Sea and Barenz Sea	Total	55.3	192.9	145.5	28.7	97.1	73.2	26.6	95.8	72.3
	1. Internal	55.2	192.8	145.1	28.6	97.1	72.8	26.6	95.7	72.3
	2. Foreign	0.1	0.1	0.4	0.1	—	0.4	—	0.1	—
Baltic Sea	Total	5.4	11.6	19.0	2.5	4.7	9.3	2.9	6.9	9.7
	1. Internal	—	0.1	0.1	—	—	0.1	—	0.1	—
	2. Foreign	5.4	11.5	18.9	2.5	4.7	9.2	2.9	6.8	9.7
Black Sea	Total	1,422.9	5.658.6	3,991.0	710.2	2.835.2	1,951.3	712.7	2,823.4	2,039.7
	1. Internal	1,412.5	5.647.2	3,978.8	703.6	2,832.8	1,944.9	708.9	2,814.4	2,033.9
	2. Foreign	10.4	11.4	12.2	6.6	2.4	6.4	3.8	9.0	5.8
Sea of Azov	Total	307.7	2,445.7	1,450.0	147.1	1,197.0	717.4	160.6	1.248.7	732.6
Caspian Sea	Total	411.7	1,278.3	748.1	208.8	635.5	373.2	202.9	642.9	374.9
	1. Internal	403.0	1,269.6	744.0	203.2	628.8	370.7	199.8	640.8	373.3
	2. Foreign	8.7	8.7	4.1	5.6	6.7	2.5	3.1	2.0	1.6
Pacific Ocean	Total	159.3	513.4	448.7	79.3	252.2	220.8	80.0	261.2	227.9
	1. Internal	143.9	508.5	445.9	70.8	249.7	219.1	73.1	258.8	226.8
	2. Foreign	15.4	4.9	2.8	8.5	2.5	1.7	6.9	2.4	1.1

Table 6

Number and Tonnage of Vessels Calling at Principal Seaports

Ports	Number of vessels			Net tonnage (thousands of register-tons)		
	1928	1932	1935	1928	1932	1935
A	1	2	3	4	5	6
Total vessels calling (all seas)	**85,300**	**118.027**	**169,934[1]**	**19,224**	**37,544**	**49,198[1]**
1. Archangel	891	1,104	1,442	650	836	1,202
2. Murmansk	1,137	3,499	3.503	211	462	898
3. Leningrad	1,309	1,891	1,985	890	1,933	2,339
4. Odessa	3,307	4,119	4,347	862	2,142	2,715
5. Nikolayev	258	892	2,082	160	666	868
6. Kherson	2,729	3,739	3,727	86	379	477
7. Eupatoria	543	662	728	306	598	723
8. Sevastopol	1,124	1,029	742	471	1,163	1,015
9. Yalta	1,733	5,927	6,923	443	1,160	1,066
10. Theodosia	733	980	1,549	330	783	1,170
11. Novorossisk	2,543	2,911	3,319	1,379	2,489	2,249
12. Tuapse	1,133	3,084	4,704	435	2,436	2,143
13. Sukhumi	1,150	2,532	2,392	436	1,077	1,146
14 Poti	805	955	1,916	621	1,248	1,363
15. Batumi	1,527	1,496	1,371	1,485	3,109	2,748
16. Kerch	8,577	8,949	9,992	301	580	545
17. Berdiansk	182	1,740	2,418	49	222	257
18. Mariupol	2,551	3,597	5,785	362	1,076	1,250
19. Taganrog	1,581	2,309	3,842	117	234	233
20. Rostov-on-Don	1.905	2,319	8,031	76	182	447
21. Yeisk	775	2,536	4,396	58	114	147
22. Baku	4,986	6,095	7,914	2,600	4,159	13,869
23. Makhach-Kala	2,047	4,428	4,418	851	1,433	1,530
24. Astrakhan	—	1,021	—	—	439	—
25. Krasnovodsk	2,564	2,819	2,887	525	891	958
26. Vladivostok	11,204	3,337	—	1,525	1,275	1,232
27. Alexandrovsk-on-Sakhalin	77	1,017	1,585	87	164	43

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[1] Exclusive of Astrakhan and Gurievo.

Table 7

Freight Carried on U. S. S. R. Vessels: Foreign Trade and Long-Distance Coasting Trade

(In thousands of tons)

Commodity Groups	Total freight carried, all vessels			Freight carried on U.S.S.R. vessels			Per cent of freight carried on U.S.S.R. vessels		
	1932	1934	1935	1932	1934	1935	1932	1934	1935
A	1	2	3	4	5	6	7	8	9
A. Exports									
Total	17,171	16,127	15,873	886	2.673	3,843	5.2	16.6	24.2
Including:									
1. Grain stuffs	2,431	1,261	1,765	88	399	677	3.6	31.6	38.4
2. Timber (excluding firewood)	5.153	5,852	6,078	174	718	1,274	3.4	12.3	21.0
3. Coal	1.546	2,147	2,187	7	243	403	0.5	11.3	18.4
4. Petroleum products	5.670	3,811	3,078	168	302	327	3.0	7.9	10.6
5. Ores	714	1.068	879	8	62	128	1.1	5.8	14.5
B. Imports									
Total	1,958	823	1,061	815	682	715	41.6	82.9	67.4
Including:									
1. Crude iron and steel and metal products	915	337	354	323	326	331	35.3	96.8	93.6
2. Machinery and implements	414	78	119	223	74	91	53.9	94.6	76.6
3. Coal	62	9	—	2	9	—	3.2	100.0	—
4. Fish	79	34	24	27	29	18	34.2	85.3	75.0
C. Long-distance coasting trade (outgoing)									
Total	433	1,359	860	426	222	160	98.4	16.3	18.6
Including:									
1. Petroleum products	183	399	329	183	180	89	100.0	45.1	27.1
2. Mineral building materials	145	151	70	145	14	9	100.0	9.3	12.9
3. Timber (excluding firewood)	15	1	—	15	—	—	100.0	—	—
4. Ores	13	22	31	13	9	1.5	100.0	40.9	4.8
5. Crude iron and steel and metal products	11	252	77	11	5	6	100.0	2.0	7.8
6. Grain stuffs	12	333	215	7	5	23	58.3	1.5	10.5
7. Salt	10	107	81	10	—	10	100.0	—	12.6
8. Sugar	14	35	12	14	—	0.5	100.0	—	4.2

Table 8

Freight Carried on U. S. S. R. Vessels: By Seas

(In thousands of tons)

Seas	Total freight carried, all vessels			Freight carried on U.S.S.R. vessels			Per cent of freight carried on U.S.S.R. vessels		
	1932	1934	1935	1932	1934	1935	1932	1934	1935
A	1	2	3	4	5	6	7	8	9
A. Exports									
All seas	**17,171**	**16,127**	**15.873**	**886**	**2,673**	**3,843**	**5.2**	**16.6**	**24,2**
1. White Sea	1,825	2,184	2,511	12	37	161	0.7	1.7	6.4
2. Barenz Sea and Baltic Sea	3,406	4,594	4,350	428	1,438	1,923	12.6	31.3	44.2
3. Black Sea	9,047	7,352	7,190	289	796	1,304	3.2	10.8	18.1
4. Sea of Azov	1,387	1,351	1,331	—	224	236	—	16.6	17.8
5. Caspian Sea	107	129	203	106	128	202	99.1	99.2	99.4
6. Pacific Ocean	1,399	517	288	51	50	17	3.6	7.7	5.9
B. Imports									
All seas	**1,958**	**823**	**1,061**	**815**	**682**	**715**	**41.6**	**82.9**	**67.4**
1. White Sea	2	—	—	2	—	—	100.0	—	—
2. Barenz Sea and Baltic Sea	1,166	427	527	444	420	494	38.0	98.4	93.7
3. Black Sea	495	204	167	253	179	124	51.1	87.7	74.2
4. Caspian Sea	101	57	75	101	53	69	100.0	93.0	92.0
5. Pacific Ocean	194	135	292	15	30	28	7.7	22.2	9.6
C. Long-distance coasting trade (outgoing)									
All seas	**433**	**1,360**	**860**	**426**	**222**	**160**	**98.4**	**16.3**	**18.6**
1. White Sea	16	—	2	16	—	2	100.0	—	100.0
2. Barenz Sea and Baltic Sea	15	6	15	8	6	15	53.3	100.0	100.0
3. Black Sea	378	1,315	811	378	206	141	100.0	15.7	17.4
4. Sea of Azov	7	16	—	7	—	—	100.0	—	—
5. Pacific Ocean	17	23	32	17	10	2	100.0	43.5	6.3

Table 9

Freight Tonnage: By Nationality of Vessels

(Foreign Trade and Long-Distance Coasting Trade)

Nationality of Vessels	Exports						Imports						Long-distance coasting trade (outgoing shipments)					
	In thousands of tons			Per cent of total			In thousands of tons			Per cent of total			In thousands of tons			Per cent of total		
	1932	1934	1935	1932	1934	1935	1932	1934	1935	1932	1934	1935	1932	1934	1935	1932	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Total	**17,171**	**16,127**	**15,873**	**100.0**	**100.0**	**100.0**	**1,958**	**823**	**1,061**	**100.0**	**100.0**	**100.0**	**433**	**1,360**	**860**	**100.0**	**100.0**	**100.0**
Including:																		
1. U. S. S. R. ships . . .	886	2,673	3,845	5.2	16.6	24.2	815	682	715	41.6	82.9	67.4	426	222	160	98.4	16.4	18.6
2. English " . . .	2.218	2,004	2,225	12.9	12.4	14.0	420	51	38	21.5	6.2	3.6	7	631	280	1.6	46.4	32.5
3. German " . . .	1,617	1,348	1,379	9.4	8.4	8.7	300	30	1	15.3	3.6	0.1	—	—	—	—	—	—
4. Greek " . . .	2,085	2,406	2,497	12.2	14.9	15.7	—	7	17	—	0.9	1.6	—	233	164	—	17.1	19.1
5. Italian " . . .	2,902	1,802	1,138	16.9	11.2	7.2	7	3	2	0.3	0.3	0.2	—	65	29	—	4.8	3.4
6. Norwegian " . . .	2,464	1,885	1,405	14.3	11.7	8.8	159	6	44	8.1	0.7	3.1	—	178	227	—	13.1	26.4
7. Danish " . . .	672	671	710	3.9	4.2	4.5	88	6	11	4.5	0.7	1.1	—	9	—	—	0.7	—
8. French " . . .	659	416	273	3.8	2.6	1.7	1	—	6	0.1	—	0.6	—	—	—	—	—	—
9. Swedish " . . .	808	612	561	4.7	3.8	3.5	12	11	—	0.6	1.3	—	—	—	—	—	—	—
10. Japanese " . . .	935	193	203	5.4	1.2	1.3	25	8	157	1.3	1.0	14.8	—	—	—	—	—	—

Table 10

Freight and Passengers Carried on Vessels of the Soviet Mercantile Fleet ("Sovtorgflot"[1])

Description	Total[2]			Including:											
				Coasting trade, local[3]			Coasting trade, long-distance			Exports			Imports		
	1929	1932	1935	1929	1932	1935	1929	1932	1935	1929	1932	1935	1929	1932	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. Total freight carried (thousands of tons)	9,063.6	15,101.3	25,354.8	7,440.2	12,927.1	20,056.8	119.2	415.3	122.0	823.2	917.4	3,834.3	562.3	775.6	738.6
Including:															
1. Petroleum products	5,564.3	9,818.1	15,484.3	5,525.5	9,477.6	15,075.8	0.1	172.7	89.3	38.4	160.6	317.8	0.3	—	—
2. Grain stuffs	387.2	879.0	1,353.2	365.7	725.4	688.6	0.1	5.7	12.3	12.9	74.3	607.9	8.5	71.4	39.3
3. Timber (excluding firewood)	535.9	609.6	2,015.1	198.6	373.5	675.5	4.0	15.1	—	332.5	214.6	1,333.0	0.8	1.0	6.5
4. Coal	288.6	626.8	2,068.7	226.9	615 4	1,069.3	—	2.0	—	30.6	7.0	405.9	31.1	2.3	0.1
5. Ores	3.3	116.4	486.0	1.9	98.0	357.0	—	13.0	4.3	1.0	5.0	123.8	0.4	0.4	0.9
6. Crude metals (ferrous and non-ferrous) and metal products	191.0	362.8	616.0	76.4	100.0	162.9	6.3	8.3	0.6	26.0	7.5	124.7	82.3	247.0	327.6
7. Mineral building materials	257.2	476.1	650.0	183.2	309.8	493.2	49.2	138.0	5.7	23.6	21.0	137.0	1.2	7.2	14.0
8. Machinery and implements	57.9	259.4	137.4	14.1	21.6	23.7	0.1	2.1	0.2	2.0	4.2	13.4	41.7	224.7	99.9
9. Salt	177.7	220.6	237.3	145.5	214.7	228.3	30.2	4.7	6.2	—	0.9	2.7	2.0	0.2	—
10. Sugar	7.3	153.8	200.8	4.2	95.8	177.9	2.2	13.6	—	0.4	30.1	22.9	0.5	13.7	—
11. Fish	96.8	192.3	140.3	69.9	133.4	116.2	1.4	—	2.0	20.5	30.9	2.3	5.1	27.5	19.6
B. Passengers carried[6] (thousands)	1,489.7	3,732.2	2,043.6	1,461.6[4]	3,710 1	2,025.5	—	—	—	24.9[5]	19.4[5]	18.1[5]	—	—	—

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[1] Including freight and passengers carried on chartered vessels of the Far Eastern Marine Administration.

[2] Including freight and passengers carried from one foreign port to another and from roadstead to seaports.

[3] Exclusive of freight and passengers carried from roadstead to seaports.

[4] Coasting trade, local and long-distance.

[5] Passengers carried to and from foreign countries.

[6] Passengers carried from one foreign port to another not itemized.

Table 11

Freight and Passenger Traffic: By Administrations of the Soviet Mercantile Fleet ("Sovtorgflot")

Description	Black Sea Administration			Caspian Sea Administration			Baltic Sea Administration			Sea of Azov Administration			Northern Administration			Far Eastern Administration		
	1932	1934	1935	1932	1934	1935	1932	1934	1935	1932	1934	1935	1932	1934	1935	1932	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A. Total freight carried (thousands of tons) . .	**2,687.5**	**4,992.1**	**6,614.7**	**9,198.9**	**13,177.1**	**13,593.1**	**1.026.7**	**1,675.3**	**2,241.3**	**1,161.5**	**1,189.9**	**1,515.5**	**387 5**	**431.0**	**635.8**	**639.2**	**714.9**	**746.4**
Including:																		
1. Petroleum products . . .	1,562.1	2,737.4	3,222.7	8,235.9	12,029.8	12,245.2	1.1	1.8	3.5	1.2	0.3	1.5	3.6	3.7	2.3	14.3	10.7	8.5
2. Grain stuffs	287.4	612.9	625.2	200.3	188.3	161.2	69.0	117.1	184.3	219.6	166.2	195.8	39.7	49.6	52.9	63.0	93.7	130.6
3. Timber (excluding firewood)	82.9	144.6	455.7	235.5	340.3	366.8	114.2	547.3	341.8	31.2	17.6	15.0	91.7	205.7	270.3	54.1	117.9	65.1
4. Coal	50.9	387.2	1,014.6	0.7	2.9	1.9	0.2	4.1	167.1	455.3	523.3	632.0	29.0	13.6	50.5	90.7	139.4	202.6
5. Ores	56.9	123.2	259.5	—	—	—	4.2	38.6	46.7	41.9	115.9	168.1	—	6.0	10.8	13.4	6.5	0.9
6. Crude metals (ferrous and non-ferrous) and metal products	65.3	168.9	132.6	27.8	53.1	55.4	212.5	233.8	318.9	25.3	53.6	75.7	6.6	19.2	13.1	25.4	34.0	20.2
7. Mineral building materials	109.5	84.6	213.2	38.2	53.8	115.9	121.6	38.5	39.1	179.6	123.0	205.8	17.3	14.8	37.6	10.0	19.4	39.0
8. Machinery and implements	42.3	45.7	49.4	10.6	11.5	15.4	188.0	42.6	61.0	2.2	2.4	3.2	5.9	1.0	3.7	10.5	4.7	4.6
9. Salt	21.4	26.4	45.0	44.4	56.9	49.5	0.9	2.3	2.7	76.1	56.3	80.8	4.4	10.1	15.5	73.4	46.7	43.8
10. Sugar	82.4	60.0	110.8	38.3	54.5	75.1	10.5	—	—	7.9	3.3	6.6	6.8	1.8	2.1	7.9	5.3	6.0
11. Fish	8.4	8.9	7.2	15.9	14.1	14.1	8.1	25.6	19.1	11.0	3.7	2.8	25.0	15.1	13.9	123.8	88.8	83.2
B. Passengers (thousands) .	**1,882.8**	**1,085.2**	**900.0**	**570.0**	**334.6**	**328.8**	**6.9**	**7.7**	**5.8**	**962.4**	**496.8**	**344.4**	**81.6**	**90.4**	**80.7**	**228.5**	**182.6**	**186.4**

Note: This table includes freight and passengers carried from one foreign port to another, from roadstead to seaports and on chartered vessels across the Pacific Ocean.

Table 12

Total Cruise of Freight and Average Number of Miles per Ton Freight Carried:

By Administrations of the Soviet Mercantile Fleet ("Sovtorgflot")

(Complete cruise of vessels for each year)

Administrations of the Soviet Mercantile Fleet ("Sovtorgflot")	Freight carried (thousands of tons)			Total cruise of freight (millions of ton-miles)			Average number of miles per ton freight		
	1929	1932	1935	1929	1932	1935	1929	1932	1935
A	1	2	3	4	5	6	7	8	9
All Administrations	**8,548.2**	**14,828.2**	**24,947.4**	**5,070.0**	**9,825.2**	**17,876.5**	**593**	**663**	**717**
a) Dry cargoes	3,274.8	4,878.0	9,650.4	3,413.1	5,270.7	11,203.6	1,042	1,080	1,161
b) Tanker cargoes	5,273.4	9,950.2	15,297.0	1,656.9	4,554.5	6,672.9	314	458	436
1. Northern Administration	421.0	376.8	635.3	685.3	546.6	545.1	1,628	1,451	858
2. Baltic Sea Administration	735.9	1,000.8	2,237.0	1,273.8	1,946.1	3,527.3	1,731	1,944	1,313
3. Black Sea Administration	871.0	2,744.9	6,478.8	771.0	3,967.3	8,575.7	885	1,445	1,324
a) Dry cargoes	757.1	1,149.2	3,230.5	732.4	1,758.7	5,389.9	967	1,530	1,668
b) Tanker cargoes	113.9	1,595.7	3,248.3	38.6	2,208.6	3,185.8	339	1,384	981
4. Sea of Azov Administration	259.7	1,161.5	1,521.8	43.7	185.4	274.1	169	159	180
5. Caspian Sea Administration	6,039.5	9,205.2	13,342.7	1,890.7	2,598.5	3,861.2	313	282	289
a) Dry cargoes	880.0	850.7	1,294.1	272.4	252.6	374.1	310	297	289
b) Tanker cargoes	5,159.5	8,354.5	12,048.6	1,618.3	2,345.9	3,487.1	314	281	289
6. Far Eastern Administration[1])	221.0	338.9	723.7	405.5	581.5	1,091.5	1,835	1,715	1,508

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[1]) Exclusive of freight carried on chartered vessels.

Table 13

Total and Average Cruise of Passengers Carried: By Administrations of the Soviet Mercantile Fleet ("Sovtorgflot")

(Complete cruise of vessels for each year)

Administrations of the Soviet Mercantile Fleet "Sovtorgflot"	Passengers carried (thousands)			Total cruise of passengers (millions cf passenger miles)			Average cruise per passenger (miles)			Per cent of U.S.S.R total					
										Passengers carried			Total cruise of passengers		
	1929	1932	1935	1929	1932	1935	1929	1932	1935	1929	1932	1935	1929	1932	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
All Administrations	1.508.7	3,689.7	2,071.5	193.7	553.0	469.1	129	150	227	100.0	100.0	100.0	100.0	100.0	100.0
Including:															
1. Northern Administration	49.1	77.9	80.8	13.4	28.4	27.1	273	365	335	3.2	2.1	3.9	6.9	5.1	5.8
2. Baltic Sea Administration	2.3	6.6	7.2	2.6	6.7	8.6	1,117	1,021	1,208	0.2	0.2	0 3	1.3	1.2	1.8
3. Black Sea Administration	906.7	1,917.5	899 9	88.1	263.7	175.9	97	137	195	60.1	52.0	43.4	45.5	47.7	37.5
4. Sea of Azov Administration	206 8	962.4	344 9	13 3	57.7	35.9	64	59	104	13.7	26.0	16.7	6.9	10.4	7.7
5. Caspian Sea Administration	234.0	562.9	328.8	47.4	124.2	70.0	202	226	213	15.5	15.3	15.9	24.5	22.5	14.9
6. Far Eastern Administration[1]	109.8	162.4	191.5	28.9	72.2	146.9	263	444	767	7.3	4.4	9.2	14.9	13.1	31.3

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[1] Exclusive of passengers carried on chartered vessels.

Table 14

Merchant Marine of the People's Commissariat of Water Transport

(As at January 1 of respective year)

Vessels	In terms of:	1928	1932	1933	1934
A	B	1	2	3	4
Total Ships					
Freight and passenger ships and freighters					
a) Number of vessels	Units	222	340	352	370
b) Net useful tonnage	Thousands of tons	335.6	777.0	867.5	993.9
Including:					
1. Motor ships					
a) Number of vessels	Units	28	83	94	104
b) Net useful tonnage	Thousands of tons	45.1	257.8	330.2	403.1
2. Steam ships					
a) Number of vessels	Units	194	257	258	266
b) Net useful tonnage	Thousands of tons	290.5	519.2	537.3	590.8

Table 1

Length of All-Union Operating Airways Under Chief Administration of the Civil Air Fleet

(As of 1935)

Airways	Length (in kilometers)
A	1
Network System of the Chief Administration of the Civil Air Fleet (including overlapping sections)	50,384
Of which:	
Within the boundaries of the U. S. S. R.	49,679
Moscow—Vladivostok	8,190
Moscow—Tbilissi (Tiflis)	3,025
Moscow—Tashkent	3,050
Tashkent—Kabul	1,140
Ulan Ude—Ulan Bator	540
Moscow—Leningrad	650
Moscow—Stalingrad	995
Moscow—Stalinogorsk	234
Kharkov—Kiev	415
Kharkov—Mariupol	360
Kiev—Odessa	445
Kiev—Stalino	580
Stalino—Starobelsk	225
Kharkov—Odessa	625
Odessa—Kakhovka	80
Odessa—Skadovsk	250
Dniepropetrovsk—Zaporozhie	80
Rostov-on-Don—Sochi	475
Tbilissi (Tiflis)—Mineral Waters	370
Tbilissi (Tiflis)—Erevan	225
Tbilissi (Tiflis)—Kutaissi—Sukhumi—Sochi	620
Evlakh—Zakataly	130
Evlakh—Agdam	80
Erevan—Leninakan	95
Erevan—Basargochar	195
Kutaissi—Mestia	90
Leningrad—Lodei Field—Vitegra	441
Leningrad—Petrozavodsk *)	365
Archangel—Ust-Tsilma—Ust-Usa	1,010
Archangel—Narian-Mar	960
Archangel—Syktyvkar	930
Sverdlovsk—Magnitogorsk	485
Stalingrad—Elista	280
Aktiubinsk—Kustanai	589

Note. The asterisk designates airways served by hydroplanes and amphibians.

Table 1 (Continued)

Airways	Length (in kilometers)
A	1
Djusali—Karsakpai	375
Aktiubinsk—Uralsk	495
Aktiubinsk—Guriev	745
Guriev—Uralsk	495
Alma-Ata—Djarkent	300
Alma-Ata—Bertys	615
Alma-Ata—Karaganda	1.085
Karaganda—Karkaralinsk	170
Ayagus (Sergiopol)—Bakhty	254
Alma-Ata—Tashkent	815
Tashkent—Stalinabad	965
Tashkent—Chardjuy	630
Tashkent—Samarkand	295
Stalinabad—Kuliab	130
Stalinabad—Garm—Khorog—Murgab	750
Stalinabad—Baumanabad	190
Stalinabad—Narkhar	170
Stalinabad—Shaartus	200
Chardjuy—Novi Urgench—Tashaûz	470
Chardjuy—Turtkul	380
Turtkul—Muinak	375
Turtkul—Chimbai	240
Chardjuy—Ashkhabad	550
Ashkhabad—Sulphuric Plant	250
Ashkhabad—Tashauz	470
Frunze—Osh	604
Frunze—Karakol	337
Tashkent—Osh	450
Ashkhabad—Gassan-Kuli	520
Novosibirsk—Kemerovo	246
Novosibirsk—Kolpashev	490
Omsk—Tara	320
Irkutsk—Bodaibo *)	1,778
Irkutsk—Yakutsk *)	2,706
Khabarovsk—Okha *)	1,130
Khabarovsk—Alexandrovsk *)	920
Alexandrovsk—Okha *)	440
Nikolaevsk—Kerbi	355
Nizhneudinsk—Biriusa	150
Chita—Tsipikan	300

Table 2

Civil Aviation in the U.S.S.R.: Main Indices of Operation

(Exclusive of "Deruluft" and Local Airways)

Indices	In terms of:	1923	1924	1930	1932	1934	1935
A	B	1	2	3	4	5	6
I. Transport Aviation							
1. Length of airways (exclusive of overlapping sections)	Kilometers	420	4,002	26,316	31,934	42,440	45,609
2. Passengers carried	Passengers	229	1,391	12,013	27,225	68,515	96,298
3. Freight and baggage carried	Tons	0.1	7.0	134.3	447.2	6,377.1	9,896
4. Mail carried	"	1.9	2.2	116.6	429.7	2,752.2	4,281
5. Total carried (freight, baggage, mail and passengers)	"	18	107	1,105	2,919	14,610	21,638
6. Total ton-kilometers flown with passengers, mail, baggage and (or) freight	Thousands of ton-km	—	—	729.1	1,570.7	5,990.6	9,323.9
II. Other Aviation Operations							
1. Fighting animal and insect pests in agriculture	Thousands of hectares	—	—	61.3	429.0	405.7	520.0
2. Airplane sowing	"	—	—	—	57.8	132.1	117.6
3. Fighting malaria	"	—	—	8.6	585.8	1,372.0	2,004.5
4. Forest fire patrol	"	—	—	—	9,000.0	—	—
5. Airplane photo-surveying	Thousands of sq. km.	—	—	105.5	108.8	324.5	—

Note. Data relating to local airways (excluding lines under Chief Administration of the Great Northern Sea Route):

	1934	1935
Length of airways (kilometers)	22,000	25,167
Passengers carried (passengers)	4,212	7,678
Freight carried (tons)	373.2	161.7
Mail carried (tons)	1,101.4	1,642.2
Total carried (tons)	1,800.1	2,406.7
Total ton-kilometers flown with passengers, mail and (or) freight (thousands of ton-km)	423.7	479.2

2. COMMUNICATIONS

(Post, Telegraph, Telephone, Radio)

Table 1

Main Indices for the Communications System

Indices	In terms of:	1913	1928	1929	1930	1931	1932	1934	1935
A	B	1	2	3	4	5	6	7	8
A. Outgoing paid-for services									
1. Letters	Millions of physical units	299.8	454.5	510.7	700.5	909.7	1,035.7	841.4	800.7
2. Postcards	„	116.2	97.2	115.2	158.6	182.8	185.8	119.6	100.1
3. Letters requiring additional postage, paid by addressee	„	7.9	28.0	34.9	60.2	109.4	140.6	106.5	100.4[1]
4. Registered mail	„	69.1	48.0	54.1	75.4	111.8	142.9	144.2	142.8
5. Insured mail, with value stated	„	1.6	2.8	2.5	1.4	1.1	1.1	1.6	2.7
6. Second class mail	„	70.3	56.9	74.9	89.6	81.8	71.8	53.6	50.5
7. Money orders	„	34.6	36.8	37.9	38.8	36.1	37.7	47.0	52.8
8. Periodicals	„	358.1	1,319.5	1,866.8	3,207.4	5,000.2	4,694.5	4,975.2	5,199.2
9. Parcels (with stated value and ordinary)	„	9.8	13.6	17.2	25.0	30.1	33.1	29.6	23.8
10. Telegrams	„	31.3	22.7	29.0	47.8	63.1	76.0	65.2	66.7
11. Telephone calls (interurban service)	„	—	13.2	17.4	23.9	27.9	36.0[2] 24.0	26.5[3]	33.4[3]
B. Telephone subscribers									
1. Cities and district centers	Thousands	187.4	235.0	264.0	296.6	355.6	424.7	534.2	607.2
C. Stations of the communications system (Post, telegraph and telephone)									
1. Departments, branches and offices	Units	5,619	3,538	3,772	4,394	4,012	5,257	5,797	6,362
2. Agencies	„	7,168	11,525	12,148	19,798	35,758	39,356	39,284	38,990
3. Rural mail carriers[4]	„	—	20,534	23,108	39,947	105,650	103,131	110,851	117,157

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[1] Data for 1935 include only letters received by addressee.
[2] Including local network; denominator: excluding local network.
[3] Excluding local network.
[4] To 1930 mounted postmen are included.

Table 1 (Continued)

Indices	In terms of:	1913	1928	1929	1930	1931	1932	1934	1935
A	B	1	2	3	4	5	6	7	8
D. Interurban telegraph and telephone service (including local network)									
1. Length of lines	Thous km.	502.6	890.1	955.0	1,071.4	1,322.4	1,509.3	1,847.5	2,024 9
E. Length of postal routes									
1. Railway (including overlapping sections)	"	58.6	80.6	83.4	88.7	95.0	101.0	105.2	108.1
2. Automobile	"	—	10.9	14.6	20.7	23.4	24.0	54.3	84.6
3. Waterway (including overlapping sections)	"	31.9	110.1	110.4	113.5	125.9	124.8	148.6	158.2
4. Air mail (including overlapping sections)	"	—	11.4	17.5	29.3	30.5	34.7	80.1	95.4
5. Roads	"	170.9	350.0	390.5	473.0	699.3	717.0	736.9	695.7
F. Post, telegraph and telephone service at District Centers, Machine-Tractor Stations and State Farms									
1. District Centers connected with principal city of given Republic, Region or Territory:									
By telegraph	Number	—	—	—	2,058	2,253	2,191	2,428	3,125
	Per cent of total	—	—	—	70.6	82.7	86.5	94.9	94.0
By telephone	Number	—	—	—	930	1,119	1,418	1,776	2,627
	Per cent of total	—	—	—	31.9	41.0	56.0	69.4	79.1
2. Connected with District Centers: By telephone									
Rural Soviets	Number	—	—	—	10,589	17,933	24,713	36,536	41,289
	Per cent of total	—	—	—	15.3	26.8	38.8	57.8	66.1
Machine-Tractor Stations	Number	—	—	—	—	—	1,528[5])	3,174	3,812
State Farms	Number	—	—	—	—	—	1,802	4,232	4,172
3. Connected with District Centers: By daily post									
Rural Soviets	Per cent of total	—	—	—	—	—	30.3	65.2	72.2
Machine-Tractor Stations	Number	—	—	--	—	—	1,598	3,189	3,791

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[5]) Excluding Northern Caucasus Territory and West Siberian Territory.

SUPPLEMENTARY TABLES

1. Railway Operation: Main Indices for 1928-1936, Monthly Summary

SUMMARY OF RAILWAY OPERATION, 1928-1936

Freight Traffic:

Month	Average daily car loadings, total freight (in 2-axle car expression)								
	1928	1929	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9
January	29,917	32,394	42,844	38,754	52,658	46,310	51,800	50,661	77,603
February	31,368	31,964	42,298	36,046	48,365	46,399	53,091	56,101	76,355
March	33,263	35,878	45,878	43,912	49,327	48,325	52 000	59,163	86,692
April	27,380	37,041	48.061	49,330	54,024	52,239	55,353	61,977	88,956
May	28,682	32,452	48,372	51,525	55,417	53,813	57,217	62,251	92,442
June	30,881	38,815	51,039	54,635	53,031	51.896	57,816	72,665	89,944
July	30,563	39,838	47,466	52,442	48,815	49,950	56,669	72,952	90,451
August	32,266	41,001	45,013	51,129	48,565	51.059	57,169	73,626	—
September	35,322	42,227	46,746	53,694	52,525	54,087	56.553	74,664	—
October	38,401	45.224	48,343	55,004	53,621	56,126	58,492	75,159	—
November	35,822	45,686	47,212	55,384	50,924	55,431	57,970	75.651	—
December	33,990	40,589	42,603	49,601	49,665	48,866	54,373	74,550	—
Total for year	**32,333**	**38,601**	**46,335**	**49,354**	**51,415**	**51,224**	**55,717**	**68,098**	—

Passenger Traffic:

Month	Passengers carried (in millions)								
	1928	1929	1930	1931	1932	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9
January	18.3	21.6	32.0	45.1	69.2	77.0	70.1	69.6	71.0
February	16.9	18.9	30.2	41.8	61.6	66.8	64.7	66.9	65.6
March	18.8	23.4	37.4	47.5	69.3	75.6	73.4	76.1	73.4
April	21.6	25.8	42.3	50.9	74.6	76.6	73.8	76.6	75.7
May	25.1	32.0	49.8	61.6	85.4	81.8	84.6	80.5	84.5
June	29.6	37.5	56.0	65.6	91.3	86.4	89.2	84.6	92.7
July	31.9	38.7	59.5	70.9	95.2	89.5	93.9	86.2	100.1
August	30.5	39.1	57.3	73.7	92.6	85.8	92.1	87.2	—
September	26.8	34.4	50.6	67.6	85.6	75.5	79.6	75.7	—
October	24.4	31.5	50.1	66.4	82.6	72.3	76.5	72.7	—
November	23.4	31.3	47.1	66.3	79.2	71.5	74.8	72.4	—
December	23.8	30.8	45 4	66.3	80.4	68.2	72.5	70.6	—
Total for year	**291.1**	**365.2**	**557.7**	**723.7**	**967.0**	**927.0**	**945.2**	**919 1**	—

Table 1

Summary, by Months

Freight carried (in millions of tons)									Total run of revenue freight (in billions of pass-kilometers)								
1928	1929	1930	1931	1932	1933	1934	1935	1936	1928	1929	1930	1931	1932	1933	1934	1935	1936
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
12.2	13.1	17.9	17.3	23.8	19.8	23.4	24.0	36.2	7.5	8.8	10.3	10.1	15.2	12.6	14.4	16.4	23.5
12.2	11.7	16.3	14.8	20.8	18.0	22.2	24.8	33.8	7.5	7.6	9.1	8.6	12.8	11.3	13.9	17.5	22.6
13.8	14.6	20.2	19.7	22.2	21.1	25.1	29.0	40.8	8.7	9.2	11.6	11.8	14.5	13.4	15.9	20.5	28.2
11.5	14.9	20 9	21.7	23.6	21.7	25.7	29.9	40 0	7.4	9.3	12.0	13.5	15.7	14.5	17.0	20 7	27.9
11.4	12.8	21.6	22.4	24.3	23.3	27.7	33 6	42 1	6 7	8.0	11.9	13.7	16.0	14.8	18.0	22.8	29.5
12.2	15.3	21.5	23.1	22.5	22.2	27.4	34.2	—	6.8	8.8	11.5	13.4	13.8	14.3	17.7	22.9	—
12.7	16.1	20.9	22.5	21.1	22.5	27.8	35 9	—	7.2	9.2	11.1	12.8	13.0	14.2	18.3	23.3	—
12.7	16.3	19.0	22.3	20.9	23.0	27.5	35.6	—	7.0	9.2	10.4	13.0	13.4	14.5	18.1	23.2	—
13.5	16.7	19.3	22.6	22 2	24.6	27.1	35.0	—	7.6	9.7	10.8	13.2	13.8	15.3	17.7	22.7	—
15.4	19.2	21.6	24 7	22.5	25.7	29.2	36 2	—	8.9	11.4	12.2	14.1	13.5	15.9	18.9	23.3	—
14.6	19.6	20.3	24.3	22.0	24.3	27.7	34.9	—	9.0	11.7	12.0	14.3	13.9	14.8	18.2	21.9	—
14.0	17.1	19.2	22.8	22.0	21.9	26.3	35.4	—	9.1	10.0	11.0	13.5	13.7	13.8	17.6	22.9	—
156.2	**187.6**	**238.7**	**258.3**	**267.9**	**268.1**	**317.1**	**388.5**	—	**93.4**	**113.0**	**133.9**	**152.1**	**169.3**	**169.5**	**205.7**	**258.1**	—

Table 2

Summary, by Months

Including: suburban traffic (in millions)									Total run of passengers (in billions of pass-kilometers)								
1928	1929	1930	1931	1932	1933	1934	1935	1936	1928	1929	1930	1931	1932	1933	1934	1935	1936
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
9.7	11.6	15 8	28.7	47.2	51.9	49.7	51.3	52.7	1.5	1.7	3.0	3.7	5.5	6.6	5.4	4.9	4.9
9.4	10.6	16.3	27.2	43.5	46.2	46.5	49.5	49.2	1.2	1.4	2.8	3.5	5.0	5.4	5.1	4.8	4.6
10.3	12.6	20.2	30.8	48.4	50.8	52.0	55.9	54.1	1.6	2.1	3.5	4.3	5.9	6.2	5.8	5.7	5.5
11.3	12.9	22.3	32.5	50.3	50.4	52.4	55.7	55.8	1.8	2.4	3.9	4.3	6.5	6.2	5.5	5.7	5.6
13.8	17.2	28.1	40.9	58.6	54.0	62.3	60 8	64.0	2.1	2.7	4.5	4.9	7.4	6.6	6.1	5.6	6.1
17.1	21.0	32.5	44.0	63 9	59.5	65.9	65.7	71 5	2.4	3.1	5.0	5.3	8 0	6.9	6.5	5.9	6.9
18.4	21.7	34.5	47.8	66.5	61.9	69.4	66.1	75.7	2.5	3.3	5.7	6.0	8.3	7.2	6.9	6.4	7.9
16.9	21.3	33.6	48.9	63.9	58.9	67.6	66.2	—	2.6	3.4	5.5	6.4	8.2	6.8	7 0	6.7	—
14.0	17.1	29.1	44.4	58.9	51.8	58.5	57.7	—	2.4	3.2	4.9	6.2	7.6	6.0	5.9	5.6	—
12.1	15.7	28.7	43.8	55.7	48.9	55.8	54.9	—	2.4	3.0	4.8	6.0	7.3	5.9	5.8	5.7	—
11.7	15.2	27.9	43.9	53 4	48.3	54.0	54.1	—	2.0	2.9	4 3	5.7	6.9	5.9	5.7	5.6	—
12 3	15.2	28.2	44.9	53.7	46.7	52.7	53.1	—	2.0	2.7	3.9	5.5	7.1	5.4	5.6	5.3	—
157.0	**191.8**	**317.2**	**477.8**	**664 0**	**629.4**	**686 9**	**691.0**	—	**24.5**	**32.0**	**51.8**	**61.8**	**83.7**	**75.1**	**71.4**	**67.9**	—

Table 3

Main Indices of Railway Operation for 1933-1936

(Monthly summary)

Month	Average run per ton freight carried (in kilometers)				Average daily freight service run of locomotives (in kilometers)				Average gross weight of freight train (in tons)				Average operating speed of freight trains, including stops (in kilometers per hour)				Per cent of empty run of freight cars to total run (revenue traffic)			
	1933	1934	1935	1936	1933	1934	1935	1936	1933	1934	1935	1936	1933	1934	1935	1936	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
January	636	617	685	651	150.7	156.1	153.0	209.2	932	953	971	1,112	12.9	13.1	12.9	16.9	28.9	27.0	25.8	28.5
February	630	626	708	668	151.1	159.5	166.2	206.2	937	963	1,008	1.147	12.7	13.5	13.8	16.2	28.3	27.9	28.3	28.1
March	636	636	706	691	155.5	166.5	170.8	228.8	953	967	1,019	1,159	13.0	14.0	14.3	17.8	26.8	31.2	27.3	28.0
April	667	662	692	697	169.3	173.3	175.0	241.1	973	1,000	1,031	1,176	14.3	14.5	14.9	18.7	26.5	29.5	26.7	26.8
May	636	644	679	701	173.2	175.2	181.2	248.9	976	1,002	1,035	1,170	14.6	14.8	15.2	19.4	27.7	29.7	27.1	26.5
June	645	645	667	693	172.7	174.6	188.0	250.7	974	1,005	1,051	1,162	14.6	14.9	15.5	19.6	26.8	29.6	26.5	26.1
July	631	657	649	—	169.8	173.2	191.4	—	965	1,016	1,053	—	14.6	14.7	15.7	—	27.4	27.5	27.6	—
August	629	658	650	—	170.0	173.1	196.8	—	962	1,010	1,057	—	14.5	14.8	16.0	—	29.2	29.1	28.1	—
September	622	656	649	—	171.5	172.6	207.0	—	973	1,004	1,058	—	14.3	14.6	16.8	—	29.9	29.5	27.5	—
October	620	648	642	—	164.6	169.7	223.2	—	963	1,003	1,046	—	14.2	14.4	18.4	—	28.4	29.1	27.4	—
November	611	656	629	—	162.6	168.2	217.9	—	959	1,004	1,028	—	13.7	14.2	17.6	—	27.3	28.7	27.2	—
December	630	670	648	—	151.6	160.9	212.4	—	926	989	1,045	—	12.7	13.6	17.2	—	27.8	27.5	26.4	—
Total for year	**632**	**649**	**664**	—	**163.5**	**168.6**	**189.4**	—	**959**	**994**	**1,035**	—	**13.8**	**14.2**	**15.7**	—	**27.9**	**28.9**	**27.2**	—

Table 3 (Continued)

Month	Average daily run of operating freight cars (in kilometers)				Average useful run of operating freight car, between loading and unloading (in kilometers)				Average useful operating time, between loading and unloading per freight car days				Average load carried per running freight car-axle, revenue traffic (in tons)			
	1933	1934	1935	1936	1933	1934	1935	1936	1933	1934	1935	1936	1933	1934	1935	1936
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January	84.6	96.8	101.2	129.6	904	940	1,019	953	10.70	9.71	10.07	7.35	7.24	7.21	7.59	7.85
February	84.9	103.4	119.5	131.2	909	968	1,090	991	10.70	9.34	9.12	7.55	7.22	7.28	7.71	7.82
March	87.8	112.2	125.1	146.7	909	1,065	1,082	988	10.36	9.50	8.65	6.74	7.22	7.43	7.73	7.76
April	99.0	120.9	127.9	155.2	951	1,066	1,058	1,015	9.60	8.82	8.27	6.54	7.22	7.54	7.77	7.74
May	102.5	124.4	137.1	157.1	923	1,048	1,013	973	9.00	8.42	7.39	6.19	7.24	7.54	7.81	7.78
June	101.9	126.1	140.3	151.3	941	1,043	982	959	9.23	8.27	7.00	6.34	7.19	7.53	7.75	7.88
July	102.5	122.3	138.7	—	964	1,029	969	—	9.41	8.42	6.99	—	7.17	7.57	7.83	—
August	104.0	123.7	135.5	—	959	1,035	956	—	9.22	8.37	7.06	—	7.30	7.60	7.85	—
September	105.2	123.9	135.0	—	952	1,048	953	—	9.05	8.46	7.06	—	7.40	7.63	7.82	—
October	105.0	123.8	131.8	—	925	1,019	944	—	8.80	8.24	7.17	—	7.34	7.64	7.77	—
November	102.4	122.7	124.8	—	919	1,036	922	—	8.98	8.44	7.39	—	7.23	7.53	7.67	—
December	91.7	111.5	121.1	—	942	1,038	932	—	10.31	9.31	7.70	—	7.14	7.53	7.73	—
Total for year	**97.6**	**117.5**	**128.4**	—	**934**	**1,029**	**987**	—	**9.57**	**8.75**	**7.69**	—	**7.25**	**7.51**	**7.75**	—

IV. CAPITAL INVESTMENTS

Growth of Capital Investments: By

(In prices of

Branches of National Economy	Absolute figures (in millions of rubles)					
	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
All State Industry [1]	2,554	3,936	7,194	10,104	8,502	10,179
Including:						
Group "A"	2,101	3,353	6,429	8,957	7,309	8,593
Group "B"	453	583	765	1,147	1,193	1,586
Cooperative industrial enterprises	61	179	213	327	361	445
Including:						
Group "B"	35	107	129	204	269	346
Total for all industry	2,615	4,115	7,407	10,431	8,863	10,624
Including:						
Construction of dwelling houses, municipal utilities, clubs, etc., and other non-industrial building schemes	307	607	1,066	1,637	1,683[5]	1,947[5]
Agriculture (excluding stock-breeding)						
1. State sector of agriculture	420	1,520	2,530	2,650	2,300	2,788
Including:						
Machine-Tractor Stations	10	113	405	589	826	1,052
2. Collective sector of agriculture	420	660	475	401	178	190
Total for agriculture (State budget)	840	2,180	3,005	3,051	2,478	2,978
Including:						
Construction of dwelling houses, municipal utilities, clubs, etc, and other non-industrial building schemes	37	266	320	274	292	414[5]
Also: Personal resources and labor participation of Collective farmers and Cooperatives	—	410	640	769	1,422	1,683
Including: Collective Farms	—	170	385	515	1,312	1,523
Transport	1,259	1,780	2,874	3,692	3,414	4,795
Including:						
a) Railways	873	1,112	1,910	2,569	2,107	2,928
b) Sea and inland waterways transport	168	289	368	374	494	745
c) All land transport, excluding railways	208	344	515	620	706	948
Including:						
Participation of labor in road-building	80	120	180	220	330	400
d) Civil aviation	10	35	81	129	107	174
Communications (post, telegraph, telephone, radio)	70	123	184	186	184	278
Trade and supply (excluding investments in industial enterprises)	99	174	260	351	372	507
a) People's Commissariat of Supply, People's Commissariat of Foreign Trade and the Committee for Products Collections	22	82	145	246	260	338
b) "Centrosoyuz" and other cooperative organizations	77	92	115	105	112	169
Education [2]	221	241	239	250	234	355
Public health, pensions and relief [2]	116	128	141	148	173	324
Administration and special construction projects	71	96	243	310	335	624
Municipal services (including electric power stations) [3]	300	315	336	465	562	1,222
Construction of dwelling houses (municipal and cooperative)	294	224	352	433	395	442
Total State Sector	5,033	8,221	13,886	18.051	15,964	20,903
Total Cooperative Sector	852	1,565	1,795	2,035	2,468	2,929
Total Socialist Economy	5,885	9,786	15,681	20,086	18,432[4]	23,832[4]

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[1] Including housing accomodation; exclusive of electric stations and enterprises of non-industrial

[2] Exclusive of capital investments of Industrial Commissariats in education and health pro

[3] Excluding municipal building organizations participating in the construction of municipal

[4] In addition to this: expenditures for special purposes, 1,275 millions of rubles in 1933 and

[5] Inclusive of Workers' Supply Departments.

Branches of National Economy
espective year)

Per cent of total for all national economy						Per cent of previous year					
1929	1930	1931	1932	1933	1934	1929	1930	1931	1932	1933	1934
7	8	9	10	11	12	13	14	15	16	17	18
43.4	40.2	45.9	50.3	46.1	42.7	138.3	154.1	182.8	140.5	84.1	119.7
35.7	34.3	41.0	44.6	39.7	36.1	148.9	159.6	191.7	139.3	81.6	117.6
7.7	5.9	4.9	5 7	6.4	6.6	103.9	128.7	131.2	149.9	104.0	132.9
1.0	1.8	1.3	1.6	2.0	1.9	184.8	293.4	119.0	153.5	110.4	123.3
0.6	1.1	0.8	1.0	1.5	1.5	—	305.7	120.6	158.1	131.9	128.6
44.4	42.0	47.2	51.9	48.1	44.6	139.1	157.4	180.0	140.8	85.0	119.9
5.2	6.2	6.8	8.1	9.1	8.2	149.8	197.7	175.6	153.6	102.8	115.7
7.1	15.6	16.1	13.2	12.5	11.7	253.0	361.9	166.4	104.7	86.8	121.2
0.2	1.2	2.6	2.9	4.5	4.4	—	1,130.0	358.4	145.4	140.2	127.4
7.1	6.8	3.1	2.0	1.0	0.8	197.2	157.1	72.0	84.4	44.4	106.7
14.2	22.3	19.2	15.2	13.5	12.5	221 6	259.5	137.8	101.5	81.2	120.2
0.6	2.7	2.0	1.4	1.6	1.7	185 0	718.2	120.4	85.6	106.6	141.8
—	4.2	4.1	3.8	7.7	7.0	—	—	156 1	120.1	184.0	118.4
—	1.7	2.5	2.6	7.1	6.4	—	—	226.5	133.8	254.8	116.1
21.4	18.2	18.3	18.4	18.5	20.1	139.1	141.4	161.5	128.5	92.5	140.5
14.8	11.4	12.2	12.8	11.4	12.3	119.4	127.4	171.7	134.5	82.0	139.0
2.9	2.9	2.3	1.9	2 7	3.1	176.8	172.0	127.3	101.6	132.1	150.8
3.5	3.5	3 3	3.1	3.8	4.0	273.7	165.4	149.7	120.4	113.9	134.3
1.4	1.2	1.1	1.1	1.8	1.7	—	150.0	150 0	122.2	150.0	121.2
0.2	0.4	0.5	0.6	0.6	0.7	333.3	350.0	231.4	159.2	82 9	162.6
1.2	1.2	1.2	0.9	1 0	1.2	132.1	175.7	149.6	101.1	98.9	151.1
1.7	1.8	1.7	1.7	2.0	2.1	152.3	175.8	149.4	135.0	106.0	136.3
0.4	0.8	0.9	1.2	1.4	1.4	129.4	372.7	176.8	169.7	105.7	130.0
1.3	1.0	0.8	0.5	0.6	0.7	160.4	119.5	125.0	91.3	106.7	150.9
3.8	2.5	1.5	1.3	1.3	1.5	170.0	109.0	99.2	104.6	93.6	151.7
2.0	1.3	0.9	0.7	0.9	1.4	117.2	110.3	110.2	105.0	116.9	187.3
1.2	1.0	1 5	1.5	1.8	2.6	116.4	135.2	253.1	127.6	108.1	186.3
5.1	3.2	2.2	2.3	3.1	5.1	129 9	105.0	106.7	138.4	120.9	217.4
5.0	2,3	2.3	2.2	2.1	1.9	105.0	76.2	157.1	123.0	91.2	111.9
85.5	84.0	88.6	89.9	86.6	87.7	143.4	163.3	168.9	130.0	88.4	130.9
14.5	16.0	11.4	10.1	13.4	12.3	148.4	183.7	114.7	113.4	121.3	118.7
100.0	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**144.1**	**166.3**	**160.2**	**128.1**	**91.8**	**129.3**

Commissariats.
tection.
utilities.
1,696 millions of rubles in 1934.

Table 2

Capital Investments and Expenses for Special Purposes: Distributed by People's Commissariats

(Millions of rubles, in prices of respective year)

People's Commissariats and Other Organizations	1929	1930	1931	1932	1933			1934		
					Capital investments	Expenditures for special purposes	Total	Capital investments	Expenditures for special purposes	Total
A	1	2	3	4	5	6	7	8	9	10
1. People's Commissariat of Heavy Industry	1,981	3,147	6.113	8,505	6,750	670	7.420	7,712	746	8,458
2. People's Commissariat of Light Industry	314	318	276	389	498	15	513	591	38	629
3. People's Commissariat of Timber Industry	96	200	382	444	372	37	409	392	75	467
4. People's Commissariat of Food Industry	204	411	592	868	911	8	919	897	37	934
5. People's Commissariat of Local Industry	—	—	—	—	—	—	—	468	3	471
6. People's Commissariat of Internal Trade	—	—	—	—	—	—	—	171	3	174
7. People's Commissariat of Foreign Trade	—	—	104	123	91	3	94	104	9	113
8. People's Commissariat of Agriculture	382	1,622	2,473	2,541	1,333	31	1,364	1,693	25	1,718
9. People's Commissariat of State Farms					817	31	848	898	25	923
10. Financing of the Collective and Cooperative sector of agriculture	420	660	475	401	178	—	178	190	—	190
11. People's Commissariat of Railway Transport	873	1,112	1,909	2,569	2,107	—	2,107	2,928	129	3,057
12. People's Commissariat of Water Transport	168	289	368	374	480	6	486	406	22	428
13. Moscow Canal Building Administration								300	—	300
14. Central Highways Administration	128	224	335	400	376	—	376	548	64	612
15. Chief Administration of the Civil Air Fleet	10	35	81	129	107	9	116	174	9	183
16. People's Commissariat of Postal and Electrical Communications	70	123	184	186	184	—	184	278	6	284

17. "Centrosoyuz" (Central Union of Consumers' Cooperative Societies)	116	255	367	432	415	—	415	512	—	512
18. Producers' Cooperatives[1]	40	95	146	197	200	—	200	262	—	262
19. Housing Cooperatives	294	224	352	433	395	—	395	135	—	135
20. Municipal dwellings								307	—	307
21. Construction of municipal utilities (including electric power stations)[2]	300	315	336	465	562	—	562	741	—	741
22. Underground railway construction (subway)[2]								481	—	481
23. Education[3]	221	242	239	250	234	—	234	355	—	355
24. Public health[3]	116	128	141	148	173	—	173	324	—	324
25. Committee for Products Collections Attached to the Council of People's Commissars	—	—	—	186	194	—	194	307	3	310
26. Chief Administration of the Photo aud Cinema Industry	—	—	—	—	14	—	14	23	—	23
27. Chief Administration of the Great Northern Sea Route	—	—	—	—	14	—	14	39	2	41
28. Special construction projects and administration	72	96	243	311	335	465	800	410	500	910
29. All other	—	—	—	—	50	—	50	263	—	263
Total	5,805	9,496	15,116	19,351	16,790	1,275	18,065	21,909	1,696	23,605
30. Over and above this: Personal resources and labor participation of Collective Farm members	—	170	385	515	1,312	—	1,312	1,523	—	1,523
31. Participation of labor in road-building	80	120	180	220	330	—	330	400	—	400
Grand total	**5,885**	**9,786**	**15,681**	**20,086**	**18,432**	**1,275**	**19,707**	**23,832**	**1,696**	**25,528**

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[1] Including fishing, hunting and lumber cooperatives and cooperatives of disabled workers.

[2] Excluding capital investments of Industrial Commissariats in the construction of municipal utilities.

[3] Exclusive of capital investments of Industrial Commissariats in education and health protection.

Table 3

Capital Investments: By Principal Branches of Industry

(Millions of rubles, in prices of respective year)

Branches of Industry	Absolute figures				Per cent of previous year				
	1929	1932	1933[1]	1934[1]	1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8	9
I. People's Commissariat of Heavy Industry[2]	1,981.4	8,505.0	6,750.0[3]	7,906.0[3]	158.8	194.2	139.1	79.4	117.1
Including:									
1. Electric generating stations	250.9	719.0	609.0	640.0	157.2	139.3	130.8	84.7	105.1
2. Coal industry	229.7	782.0	561.0	595.0	134.5	193.8	130.6	71.7	106.1
3. Petroleum industry	248.9	452.1	483.0	698.0	140.8	118.3	109.1	106.8	144.5
4. Ferrous metals industry (including ore mining)	263.2	1,421.9	1,726.0	1,827.0	158.9	199.9	170.1	121.4	105.9
5. Non-ferrous metals industry	91.0	543.5	406.0	464.0	164.8	213.5	169.7	74.7	114.3
6. Automobiles and tractors	53.3	331.8	261.0	234.0	316.3	215.2	91.4	78.7	89.7
7. Transportation equipment	25.2	183.5	150.0	282.0	194.8	187.4	199.4	81.7	188.0
8. Agricultural machinery and implements	39.1	60.9	16.0	21.0	201.3	154.4	50.1	26.3	131.2
9. Machine tools machinery (excluding abrasives)	—	78.7	48.0	76.0	—	198.2	120.7	61.0	158.3
10. Electrical machinery and equipment	38.3	150.4	94.0	114.0	187.5	139.5	150.1	62.5	121.3
II. People's Commissariat of Light Industry[2]	314.0	388.7	498.0[3]	774.0[3]	101.3	86.8	140.9	128.1	155.4
Including:									
1. Textile industry	193.5	143.6	209.0	349.0	99.7	63.2	117.7	145.5	167.0
2. Leather and boot and shoe industry	44.8	55.2	70.0	101.0	103.8	116.1	102.2	126.8	144.3

III. People's Commissariat of Timber Industry[2]	96.0	444.1[3]	372.0[3]	407.0	208.3	190.8	116.4	83.8	109.4
Including:									
1. Woodworking industry	—	119.3	94.0	92.0	—	—	58.1	81.3	94.8
2. Furniture industry	—	8.4	11.0	18.0	—	—	57.9	131.0	163.6
3. Wood distillation	—	25.5	14.0	18.0	—	—	231.8	54.9	128.6
4. Paper industry	—	65.2	60.0	92.0	—	—	138.1	92.0	153.3
IV. People's Commissariat of Supply[2]	162.2	632.2	715.0	804.0	166.6	153.8	152.1	113.1	112.4
Including:									
1. Sugar industry	—	92.1	126.0	107.0	—	115.4	166.5	136.8	84.9
2. Fisheries	—	121.5	87.0	118.0	—	151.0	115.9	71.6	135.6
3. Meat industry	—	109.6	90.0	98.0	—	340.3	519.4	82.1	108.9
V. Committee of Products Collections attached to the Council of People's Commissars	—	117.7	93.0	148.0	—	—	—	79.0	159.1
VI. Producers' Cooperatives (disabled workers' cooperatives, fishing and hunting cooperatives and "Centrosoyuz")	60.9	327.5	361.0	445.0	293.9	118.8	154.0	110.2	123.3
VII. All other	—	16.0	74.0	140.0	—	—	—	462.5	189.2
Total (including district electric generating stations)	2,614.5	10,431.2	8,863.0	10,624.0	157.4	180.0	140.8	85.0	119.9

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[1] Excluding 730.0 millions of rubles in 1933 and 899.0 millions of rubles in 1934 expended for special purposes; these sums include 69.0 millions of rubles in 1933 and 88.0 millions of rubles in 1934 expended on the financing of other organizations.

[2] Including the corresponding branches of the People's Commissariats of Local Industry.

[3] Including Workers' Supply Departments, vocational education and scientific research institutes. These items are not included in capital investments itemized by branches of industry, with the exception of electric generating stations.

V. LABOR

Average Annual Number of Wage-
By Branches of

Branches of Industry or Occupation	Absolute		
	1928	1929	1930
A	1	2	3
Total for All National Economy	11,599.0	12,167.9	14,530.9
Comprising:			
I. Large-scale industry	3,096.0	3.365.9	4,263.8
II. Building construction	723.0	917.8	1,623.4
III. Transport	1,270.0	1,302.2	1,499.2
Including:			
Railway transport	971.0	984.0	1,084.0
Water transport	104.0	111.0	132.0
Other transport	195.0	207.2	283.2
IV. Agriculture	1,676.0	1,575.6	1,552.0
Including:			
State Farms	345.4	416.4	795.0
Machine-Tractor Stations			
V. Forestry	331.0	415.0	611.0
VI. Communications system (post, telegraph, telephone, radio)	95.0	119.9	153.4
VII. Trade	532.0	626.5	814.7
VIII. Public catering system (public food services)	55.0	78.9	180.9
IX. Banking and credit system	95.0	108.3	100.8
X. Education	789.0	819.0	920.8
XI. Health protection	399.0	438.2	476.5
XII. State and government administrative, economic and other institutions or organizations	1,174.0	1,255.4	1,469.5
XIII. Public utilities	117.0	123.0	131.0

See Notes to Tables 1-23 at end of this Section, pages 393, 394.

Table 1

Earners and Salaried Employees, 1928-1935
ational Economy

igures (in thousands)					Per cent of 1928						
1931	1932	1933	1934	1935	1929	1930	1931	1932	1933	1934	1935
4	5	6	7	8	9	10	11	12	13	14	15
18,989.5	**22,942.8**	**22,325.3**	**23,681.2**	**24.769.9**	**104.9**	**125.3**	**163.7**	**197.8**	**192.5**	**204.2**	**213.6**
5,483.3	6,481.3	6,229.4	6,530.7	7,065 5	108.7	137.7	177.1	209.3	201.2	210 9	228.2
2,548.9	3,125.8	2,361.1	2,618.1	2,203.9	126.5	224.5	352.5	432.3	326.6	362.1	304.8
1,927.2	2,222.0	2,304.9	2,555.6	2,921.8	102.5	118.0	151.7	175.0	181.5	201.2	230.1
1,320.2	1,526 5	1,473.7	1,603.2	1.788.6	101.3	111.6	136.0	157.2	151.8	165.1	184.2
177.0	195.5	188.9	222.3	246.3	106.7	126.9	170.2	188.0	181.6	213.8	236.8
430.0	500.0	642 3	730.1	886.9	106.3	145.2	220.5	256.4	329.4	374.9	454.8
2,059.7	2,857.5	2.818.7	3,093.6	2,973.9	94.0	92.6	122.9	170.5	168.2	184.6	177.4
1,601.1	2,226.3	2,422.2	2,702.0	2,533.6	120.5	230.2	463.5	686.4	753.6	856.8	821.4
	144.4	180.9	257.5	303.7							
857.2	1,140.2	1,192 9	1,209.4	1.300.0	125.4	184.6	259.0	344.5	360.4	365.4	392.7
197.2	224.3	257.9	294.7	334.4	126.2	161.5	207.6	236.1	271.5	310.2	352.0
1,077.9	1,410.8	1,374.7	1.465.4	1,650.0	117 8	153.1	202.6	265.2	258.4	275.4	310.2
365.3	515 1	532.0	545.6	484.8	143.4	328.9	664.2	936.5	967.3	992.0	881.4
116.4	128.4	132.1	133.9	151.9	114.0	106.1	122.5	135.2	139.1	140.8	159.9
1,153.3	1,347.2	1,462.6	1,568.5	1,725.4	103.8	116.7	146.2	170.7	185.4	198.8	218.7
562.2	647.2	680.9	739.1	808.6	109.8	119.4	140.9	162.2	170.7	185.2	202.6
1,712.2	1,918.0	1,752.5	1,679.6	1,745 2	106.9	125.2	145.8	163.4	149.3	143.1	148.6
181.7	236.6	373.0	377.7	508.7	105.1	112.0	155.3	202.2	318.8	322.8	434.8

Average Annual Number of Wage-Earners and

By Social Sectors and Branches

Branches of Industry or Occupation	Social sectors	Absolute
		1925-1926
A	B	1
Total for All National Economy (Exclusive of seasonal and day laborers and domestic help)	Socialized	7,771.2
	Private and concessions	1,797.9
	Total	9,569.1
I. Large-scale industry	Socialized	2,610.8
	Private and concessions	67.2
	Total	2,678.0
II. Building construction	Socialized	404.2
	Private	22.2
	Total	426.4
III. Transport (railways, water transport, etc)	Socialized	1,215.5
	Private	24.0
	Total	1,239.5
IV. Agriculture, forestry and fishing industry	Socialized	652.0
	Private and concessions	1,355.5
	Total	2,007.5
V. Communications system (post, telegraph, telephone, radio)	Socialized	94.0
	Private	0.2
	Total	94.2
VI. Trade	Socialized	409.9
	Private	60.8
	Total	470.7
VII. Public catering system (public food services)	Socialized	29.5
	Private	15.8
	Total	45.3
VIII. Banking and credit system	Socialized	81.1
	Private	1.3
	Total	82.4
IX. State institutions (including education, health protection and art institutions)	Socialized	1,993.6
	Private	14.6
	Total	2,008.2
X. Public utilities	Socialized	84.0
	Private	5.9
	Total	89.9

Table 2

alaried Employees, 1925-26, 1927-28 and 1935:

f Industry or Occupation

igures (in thousands)		In per cent of total; by branches		
1927-1928	1935	1925-1926	1927-1928	1935
2	3	4	5	6
8.985.1	24,459.9	81.2	84.5	99.96
1,644.8	10.0	18.8	15.5	0.04
10,629.9	24,469.9	100.0	100.0	100.0
2,994.2	7,063.9	97.5	98.7	99.98
39,1	1.6	2.5	1.3	0.02
3,033.3	7,065.5	100.0	100.0	100.0
671.1	2,203.9	94.8	98.2	100.0
12.7	—	5.2	1.8	—
683.8	2,203.9	100.0	100.0	100.0
1,277.4	2,921.8	98.1	98.9	100.0
14.4	—	1.9	1.1	—
1,291.8	2,921.8	100.0	100.0	100.0
729.1	4.393.5	32.5	35.6	98.8
1,320.7	8.4	67.5	64.4	0.2
2,049.8	4,401.9	100.0	100.0	100.0
95.1	334.4	99.8	99.8	100.0
0.2	—	0.2	0.2	—
95.3	334.4	100.0	100.0	100.0
471.1	1,650.0	87.1	91.5	100.0
43.7	—	12.9	8.5	—
514.8	1,650.0	100.0	100.0	100.0
37.4	484.8	65.1	70.0	100.0
16.0	—	34.9	30.0	—
53.4	484.8	100.0	100.0	100.0
88.9	151.9	98.4	98.1	100.0
1.7	—	1.6	1.9	—
90.6	151.9	100.0	100.0	100.0
2,283.4	4,279.2	99.3	99.6	100.0
10.3	—	0.7	0.4	—
2,293.7	4,279.2	100.0	100.0	100.0
107.9	508.7	93.4	93.7	100.0
7.3	—	6.6	6.3	—
115 2	508.7	100.0	100.0	100.0

Average Annual Number of Wage-Earners and Salaried Employees, 1933:

(In thou

Branches of National Economy	Northern Territory	Karelian A.S.S.R.	Leningrad Region	Western Region
A	1	2	3	4
Total for All National Economy	**429.6**	**122.0**	**1,981.5**	**548.6**
Comprising:				
I. Large-scale industry	75.3	20.7	776.6	139.8
II. Building construction	23.8	18.1	182.9	43.8
III. Transport	55.7	15.2	190.4	61.6
Including:				
Railway transport	12.6	12.9	77.7	50.4
Water transport	13.9	0.4	23.2	0.2
Other transport	29.2	1.9	89.5	11.0
IV. Agriculture	23.5	2.7	77.7	53.9
Including:				
State Farms	22.0	2.1	72.7	50.2
Machine-Tractor Stations	0.7	0.3	2.6	2.6
V. Forestry	132.3	35.2	106.6	67.1
VI. Communications system (post, telegraph, telephone, radio)	6.5	1.6	22.1	9.2
VII. Trade	21.9	3.7	95.8	39.7
VIII. Public catering system (public food services)	8.5	3.1	55.9	7.6
IX. Banking and credit system	2.5	0.7	7.8	3.4
X. Education	25.7	5.5	135.7	46.9
XI. Health protection	10.3	2.8	62.2	16.3
XII. State and government administrative, economic and other institutions or organizations	23.8	6.2	112.0	32.9
XIII. Public utilities	3.1	0.9	50.3	5.8

Table 3

By Branches of National Economy and by Republics, Regions and Territories

sands)

Moscow Region	Ivanovo Region	Gorky Territory	Voronezh Region	Kursk Region	Sverdlovsk Region	Cheliabinsk Region	Ob-Irtysh Region	Bashkir A.S.S.R.
5	6	7	8	9	10	11	12	13
3,380.4	889.1	891.0	580.1	322.0	981.8	574.5	66.5	226.6
1,304.4	437.7	284.0	106.2	44.9	304.8	150.9	13.9	42.0
412.6	53.5	81.1	65.6	33.5	141.0	95.3	4.7	21.8
281.3	47.1	66.6	66.8	33.4	89.8	48.7	8.5	15.5
148.0	24.4	35.4	52.2	28.0	45.2	36.9	4.8	9.0
4.7	3.5	10.5	0.3	—	4.6	—	2.2	1.3
128.6	19.1	20.7	14.3	5.4	40.0	11.8	1.5	5.2
162.3	43.3	39.1	137.9	90.2	52.2	89.7	3.2	36.1
153.6	39.5	34.2	126.3	82.2	46.8	78.5	2.7	32.6
4.7	2.2	2.9	10.5	7.3	4.1	9 5	0.3	2.8
69.0	75.0	145.8	19.6	6.3	125.4	32.2	9.5	26.0
43.2	8.5	12.1	7.5	4.9	9.2	5.4	1.3	3.2
177.8	40.8	47.5	42.1	28.8	50.7	35.2	5.4	21.9
101.2	17.3	16.0	8.3	3.4	27.3	13.8	0.8	3.0
17.1	4.1	5.5	4.0	2.4	3.8	2.6	0.5	1.6
223.0	47.0	62.4	45.6	30.6	45.9	27.5	4.2	22.9
110.9	27.5	25.6	16.0	9.3	26.2	13.3	2.1	6.4
250.2	41.2	58.9	39.0	21.0	50.2	30.3	5.1	16.5
87.4	12.5	11.3	6.7	2.6	19.0	11.1	0.7	1.7

Branches of National Economy	Tatar A.S.S R.	Kulbyshev Territory	Saratov Territory
A	14	15	16
Total for All National Economy	**258.4**	**673.7**	**318.0**
Comprising:			
I. Large-scale industry	60.3	133.9	47.3
II. Building construction	21.1	52.0	29.8
III. Transport	22.5	74.6	37.1
Including:			
Railway transport	11.9	55.8	25.5
Water transport	2.6	2.9	3.0
Other transport	8.0	15.9	8.6
IV. Agriculture	34.3	158.6	83.5
Including:			
State Farms	31.1	140.0	69.6
Machine-Tractor Stations	2.3	17.0	12.5
V. Forestry	21.1	33.5	4.4
VI. Communications system (post, telegraph, telephone, radio)	3.9	9.6	4.9
VII. Trade	19.2	48.1	26.2
VIII. Public catering system (public food services)	6.0	10.7	5.0
IX. Banking and credit system	2.0	4.7	2.5
X. Education	23.6	54.3	24.1
XI. Health prorection	8.4	20.9	12.2
XII. State and government administrative, economic and other institutions or organizations	22.5	44.6	23.3
XIII. Public utilities	4.2	9.0	4.7

Table 3 (Continued)

Stalingrad Territory	Northern Caucasus Territory	Azov-Black Sea Territory	Daghestan A.S.S.R.	Crimean A.S.S.R.	Kazakhstan A.S.S.R.	Kara-Kalpak A.S.S.R.	Kirghiz A.S.S.R.	West Siberian Territory
17	18	19	20	21	22	23	24	25
376.5	310.8	917.6	73.6	189.9	616.5	16.3	89.1	1,025.0
96.1	53.1	219.6	8.6	37.9	74.0	0.7	11.9	178.8
31.7	39.5	83.8	5.7	19.5	80.7	2.6	12.0	152.5
42.7	25.9	100.4	6.1	17.6	69.4	0.9	2.6	95.3
15.0	18.4	58.2	4.0	8.4	51.3	—	0.5	70.3
12.5	—	10.6	0.3	2.0	4.1	0.5	0.1	4.8
15.2	7.5	31.6	1.8	7.2	14.0	0.4	2.0	20.2
66.7	76.3	207.5	13.3	38.1	178.8	2.7	28.8	224.7
57.3	66.3	181.8	11.8	34.8	162.7	1.6	25.2	209.1
8.7	8.9	24.0	0.7	2.7	11.9	0.7	2.4	14.6
4.6	4.3	10.9	1.4	1.3	7.1	0.4	1.6	47.6
5.2	4.2	10.7	1.5	3.3	8.8	0.4	1.3	12.1
24.5	23.7	65.3	5.4	11.2	40.9	1.8	7.6	87.1
5.8	5.2	18.1	1.2	4.7	7.9	0.1	0.9	22.7
2.4	2.3	5.5	0.8	1.3	4.8	0.3	0.8	5.5
20.7	21.3	53.3	8.8	10.8	36.5	2.3	6.7	63.0
12.0	13.8	33.4	2.7	16.8	14.8	0.4	2.7	29.2
23.9	26.4	56.1	8.1	12.9	62.0	1.8	9.0	57.6
5.4	6.2	16.2	1.1	5.7	4.4	0.1	0.8	13.8

Branches of National Economy	East Siberian Territory	Buriat-Mongolian A.S.S.R.	Far Eastern Territory
A	26	27	28
Total for All National Economy	**420.8**	**57.6**	**529.8**
Comprising:			
I. Large-scale industry	77.0	6.1	71.0
II. Building construction	61.8	15.5	161.1
III. Transport	67.9	5.2	55.6
Including:			
Railway transport	55.1	2.3	35.0
Water transport	3.6	1.1	8.5
Other transport	9.2	1.8	12.1
IV. Agriculture	48.4	4.6	28.5
Including:			
State Farms	44.4	3.5	25.2
Machine Tractor Stations	3.4	1.0	3.0
V. Forestry	30.5	4.2	47.4
VI. Communications system (post, telegraph, telephone, radio)	8.5	0.8	9.5
VII. Trade	31.0	4.6	24.3
VIII. Public catering system (public food services)	10.3	1.2	11.0
IX. Banking and credit system	2.5	0.5	2.8
X. Education	20.6	4.9	21.7
XI. Health protection	10.2	1.7	15.3
XII. State and government administrative, economic and other institutions or organizations	28.2	5.1	31.0
XIII. Public utilities	4.1	0.8	6.7

Table 3 (Continued)

Yakut A.S.S.R.	Total for the R.S.F.S.R.	Kiev Region	Chernigov Region	Vinnitsa Region	Kharkov Region	Dniepropetrovsk Region	Odessa Region	Donetz Region
29	30	31	32	33	34	35	36	37
29.3	16,895.7	608.8	188.6	319.2	845.9	686.1	500.1	1,344.9
12.4	4,789.9	145.6	37.5	59.3	232.2	233.1	130.2	638.8
3.0	1,950.0	44.9	10.6	19.7	61.8	113.1	32.5	200.2
2.7	1,607.1	57.0	15.7	23.3	87.1	53.3	57.3	101.8
—	949.3	32.2	12.7	16.5	61.7	37.9	23.3	67.2
1.8	123.2	3.5	0.4	—	0.2	2.2	9.4	1.3
0.9	534.6	21.3	2.6	6.8	25.2	13.2	24.6	33.3
1.1	2,007.7	111.9	40.3	80.7	172.6	95.2	106.1	129.6
0.9	1,808.7	99.1	37.3	70.2	158.9	83.1	93.2	121.7
0.2	164.5	11.4	2.7	9.8	12.5	11.7	11.9	7.5
1.7	1,072.0	23.8	12.2	7.6	7.9	0.3	2.8	2.0
1.1	220.5	7.8	2.7	5.6	10.1	6.1	6.0	7.0
1.7	1,033.9	49.2	17.7	30.3	50.3	42.1	45.7	53.5
0.2	377.2	12.7	2.7	4.6	17.8	18.8	10.9	60.8
0.3	95.0	4.1	1.7	2.7	4.4	2.8	3.1	3.3
1.7	1,097.2	56.4	19.0	29.8	65.0	44.9	32.4	38.9
0.6	521.0	19.4	6.4	10.2	31.0	20.2	18.5	33.6
2.3	1,102.1	45.5	14.6	23.5	60.1	29.1	28.2	34.0
0.1	296.4	9.2	1.3	1.6	11.3	5.6	9.5	12.2

Branches of National Economy	Moldavian A.S.S.R.	Total for the Ukrainian S.S.R.	White Russian S.S.R.
A	38	39	40
Total for All National Economy	45.2	4,538.8	548.3
Comprising:			
I. Large-scale industry	7.5	1,484 2	131.0
II. Building construction	3.6	486.4	46.1
III. Transport	3.1	398.6	53.7
Including:			
Railway transport	2.1	253.6	36.8
Water transport	—	17.0	2.2
Other transport	1.0	128.0	14.7
IV. Agriculture	9.8	746.2	65.6
Including:			
State Farms	8.1	671.6	61.1
Machine-Tractor Stations	1.6	69.1	3.0
V. Forestry	0.3	56.9	66.9
VI. Communications system (post, telegraph, telephone, radio)	0.9	46.2	9.3
VII. Trade	5.0	293.8	33.8
VIII. Public catering system (public food services)	0.8	129.1	10.6
IX. Banking and credit system	0.5	22.6	3.7
X. Education	4.5	290.9	46.1
XI. Health protection	1.7	141.0	18.1
XII. State and government administrative, economic and other institutions or organizations	4.9	239.9	38.0
XIII. Public utilities	0.6	51.3	5.5

Table 3 (Continued)

Azerbaidjan S.S.R.	Georgian S.S.R.	Armenian S.S.R.	Total for the Transcaucasian S.F.S.R.	Uzbek S.S.R.	Turkmenian S.S.R.	Tadjik S.S.R.
41	42	43	44	45	46	47
373.8	**333.6**	**100.1**	**807.5**	**418.4**	**113.6**	**67.8**
105.6	55.8	18.3	179.7	72.5	17.0	7.8
47.2	55.4	20.3	122.9	47.5	14.9	13.0
38.9	31.8	7.0	77.7	40.1	19.4	3.6
13.1	19.5	4.8	37.4	25.5	10.8	0.5
6.9	1.4	—	8.3	0.7	4.8	0.0
18.9	10.9	2.2	32.0	13.9	3.8	3.1
31.4	37.2	11.4	80.0	86.8	16.3	12.0
25.7	32.4	9.5	67.6	72.7	11.7	8.6
3.7	2.0	0.9	6.6	9.0	3.0	2.3
1.8	8.2	1.1	11.1	1.4	0.4	0.7
4.2	5.2	1.5	10.9	4.9	1.7	1.2
24.5	20.9	6.3	51.7	36.9	9.6	5.7
9.9	8.8	2.5	21.2	4.9	1.6	1.0
2.5	2.9	0.9	6.3	4.1	1.2	1.0
30.1	33.7	10.4	74.2	43.8	9.5	6.8
14.4	15.6	3.3	33.3	18.6	4.4	2.7
29.7	34.0	10.4	74.1	36.9	11.5	10.0
10.1	7.2	1.9	19.2	3.7	1.2	0.4

Total Annual Pay-Roll Disburse

By Branches ot

Branches of Industry or Occupation	Absolute figures (in			
	1929	1930	1931	1932
A	1	2	3	4
Total for All National Economy	9,735.2	13,597.2	21,394.8	32,737.7
Comprising:				
I. Large-scale industry	3,222.4	4,413.0	6,494.3	9,547.9
II. Building construction	940.9	1,756.1	3,168.7	4,715.9
III. Transport	1,209.6	1,594.8	2,305.2	3,347.3
Including:				
Railway transport	891.3	1,116.6	1,530.1	2,282.9
Water transport	114.4	153.4	225.3	295.0
Other transport	203.9	324.8	549.8	769.4
IV. Agriculture	571.7	865.1	1,618.5	2,474.1
Including:				
State Farms	166.3	483.1	1,258.8	1,832.5
Machine-Tractor Stations				168.1
V. Forestry	204.6	303.6	700.5	1,247.7
VI. Communications system (post, telegraph, telephone, radio)	86.4	116.6	203.0	298.9
VII. Trade	499.9	727.2	1,154.2	1,905.9
VIII. Public catering system (public food services)	57.8	140.8	305.8	545.7
IX. Banking and credit system	105.1	120.8	176.7	240.1
X. Education	645.4	900.0	1,445.5	2,800.0
XI. Health protection	318.5	380.9	527.2	819.3
XII. State and government administrative, economic and other institutions or organizations	1,280.1	1,720.0	2,518.9	3,727.6
XIII. Public utilities	87.6	106.6	199.7	343.7

Table 4

ments, 1929-1935:

National Economy

millions of rubles)			Per cent of 1928					
1933	1934	1935	1930	1931	1932	1933	1934	1935
5	6	7	8	9	10	11	12	13
34,952.7	**44,000.0**	**56,200.0**	**166.7**	**262.2**	**401.3**	**428.4**	**539.3**	**688.8**
10,350.9	12,586.8	16,779.5	163.8	241.0	354.3	384.1	467.0	622.6
3,873.9	5,345.2	5,503.5	243.9	440.1	655.0	538.0	742.4	764.4
3,852.7	4,993.0	6,980.6	145.9	210.9	306.3	352.5	456.8	638.7
2,413.2	3,093.6	4,133.4	133.9	183.5	273.7	289.4	370.9	495.6
322.9	467.5	623.9	163.2	239.7	313.8	343.5	497.3	663.7
1,116.6	1,431.9	2,223.3	196.8	333.2	466.3	676.7	867.8	1,347.4
2,934.8	3,797.7	4,657.0	177.8	332.7	508.6	603.2	780.6	957.2
2,336.2	3,029.1	3,678.8	427.5	1,113.9	1,770.4	2,333.0	3,126.8	3,871.1
300.1	504.1	695.5						
1,356.1	1,662.5	1,982.5	232.3	536.0	954.6	1,037.6	1,272.0	1,516.9
373.9	463.1	650.1	157.5	274.3	403.9	505.3	625.8	878.5
1,845.6	2,173.6	3,054.2	174.6	277.1	457.6	443.1	521.9	733.3
597.0	677.6	752.4	410.5	891.5	1,591.0	1,740.5	1,975.5	2,193.6
281.1	312.8	404.7	129.9	191.0	258.2	302.3	336.3	435.2
2,581.0	3,045.1	4,016.7	168.4	270.2	523.4	482.4	569.2	750.8
962.0	1,142.0	1,818.8	149.4	206.7	321.3	377.3	447.8	713.2
4,125.4	4,524.7	5,664.3	162.3	237.6	351.7	389.2	426.9	534.4
570.5	628.1	998.9	130.8	245.0	421.7	700.0	770.7	1,225.6

Average Annual Wages and Salaries, 1929-1935:

Branches of National Economy	Absolute figures		
	1929	1930	1931
A	1	2	3
Total for All National Economy	**800**	**936**	**1,127**
Comprising:			
I. Large-scale industry	957	1,035	1,184
II. Building construction	1,025	1,082	1,243
III. Transport	929	1,064	1,196
Including:			
Railway transport	906	1,030	1,159
Water transport	1,031	1,162	1,273
Other transport	984	1,147	1,279
IV. Agriculture	363	557	786
Including:			
State Farms	399	608	786
Machine-Tractor Stations			
V. Forestry	493	497	817
VI. Communications system (post, telegraph, telephone, radio)	721	760	1,029
VII. Trade	798	893	1,071
VIII. Public catering system (public food services)	733	778	837
IX. Banking and credit system	971	1,199	1,518
X. Education	788	978	1,253
XI. Health protection	727	799	938
XII. State and government administrative, economic and other institutions or organizations	1,020	1,170	1,471
XIII. Public utilities	712	814	1,099

Table 5

By Branches of National Economy

(in rubles)				Per cent of 1928					
1932	1933	1934	1935	1930	1931	1932	1933	1934	1935
4	5	6	7	8	9	10	11	12	13
1,427	1,566	1.858	2,269	133.2	160.3	203.0	222.8	264.3	322.7
1,473	1,662	1,927	2,375	119.0	136.1	169.3	191.0	221.5	273.0
1,509	1,641	2,042	2,497	108.6	124.8	151.5	164.8	205.0	250.7
1,506	1.672	1,954	2,389	123.6	138.9	174.9	194.2	227.0	277.5
1,496	1,637	1,930	2,311	119.9	134.9	174.2	190.6	224.6	269.0
1,509	1,709	2,103	2,533	129.3	141.6	167.9	190.1	233.9	281.8
1,539	1,738	1,961	2,507	135.6	151.2	181.9	205.4	231.8	296.3
866	1,041	1,228	1,566	192.1	271.0	298.6	359.0	423.4	543.4
823	965	1,121	1,452	185.9	240.4	258.1	309.8	365.1	471.5
1,164	1,659	1,957	2,290						
1,094	1,137	1,375	1,525	125.8	206.8	276.9	287.8	348.1	386.1
1,333	1,450	1,571	1,944	97.9	132.6	171.8	186.9	202.5	250.5
1,351	1,343	1,483	1.851	114.1	136.8	172.6	171.5	189.4	236.4
1,059	1,122	1,242	1,552	124.9	134.4	170.0	180.1	199.4	249.1
1,834	2,128	2,336	2,664	122.2	154.7	187.0	216.9	238.1	271.6
1,633	1,765	1,941	2,328	144.3	184.8	240.9	260.3	286.1	343.4
1,248	1,413	1,545	2,249	125.2	147.0	195.6	221.5	242.2	352.5
1,943	2,354	2,694	3,246	129.6	162.9	215.2	260.7	298.4	359.5
1,453	1,529	1,663	1,964	117.0	157.9	208.8	219.7	238.9	282.2

Table 6

Social Insurance: Wage-Earners and Salaried Employees

(Social Services and Measures for Raising Living Standards)

Items	In millions of rubles				Per cent of 1932		
	1932	1933	1934	1935	1933	1934	1935
A	1	2	3	4	5	6	7
1. Social insurance payments							
a) Temporary disablement benefits	865.3	903.3	1,120.8	1,440.4	104.4	129.5	166.5
b) Pensions	463.7	612.0	802.4	1,035.6	132.0	173.0	223.3
c) Other social insurance payments	33.1	35.4	37.6	42.1	107.0	113.6	127.2
Total for pensions and social insurance benefits	1,362.1	1,550.7	1,960.8	2,518.1	113.8	144.0	184.9
2. Trade Union benefits	33.8	46.0	37.9	72.8	136.1	112.1	215.4
3. Stipends	594.0	907.5	1,059.0	1,421.5	152.8	178.3	239.3
4. Educational and cultural services	2,814.8	3,102.2	3,314.4	3,943.5	110.2	117.7	140.1
5. Health protection	1,457.8	1,858.8	2,832.4	4,016.4	127.5	194.3	275.5
6. Fund for the improvement of social services for workers at given plant or factory (restaurants, day nurseries, etc.)	60.8	65.0	99.5	100.0	106.9	163.7	164.5
Total	**6,323.3**	**7,530.2**	**9,304.0**	**12,072.3**	**119.1**	**147.1**	**190.9**

Table 7

Average Annual Number of Wage-Earners (Including Apprentices) in Large-Scale Industry: 1913-1936

(In thousands)

Branches of Industry	1913	1928	1932	As at Jan. 1, 1936
A	1	2	3	4
All industries	2,591.8	2,690.8	5,152.8	6,173.0
Including:				
1. Mineral industry (extraction and dressing of minerals)	189.9	181.5	372.4	416.7
2. Mining and metallurgical industries	612.3	598.2	1,027.9	1,070.8
Of which:				
Coal mining	196.4	253.5	413.9	437.5
3. Machine-building and metal-working industries	356.1	474.5	1,386.8	1,901.0
4. Woodworking industry	104.0	102.6	245.2	320.3
5. Chemical industry	75.9	95.2	231.6	272.0
6. Food industry	371.0	210.4	402.5	622.1
7. Processing of raw materials of animal origin (including the leather, fur and wool industries and production of boots and shoes)	39.7	79.5	172.4	170.2
8. Textile industry (including the needle industries and production of haberdashery)	727.4	814.3	985.2	1,103.7
Inclusive of:				
Cotton industry	491.3	516.4	451.6	481.9
Wool industry	85.5	69.8	82.3	75.6
Flax, hemp and jute industries	84.4	114.0	110.6	183.3

Note. Tables 7-19 comprise industrial enterprises equipped with mechanical motive power and employing 16 or more workers, or 30 workers if not so equipped (exclusive of wage-earners in the Producers' Cooperative system).

For purposes of comparison with 1913, the above table is computed in accordance with the classification of that year.

Number of Persons Engaged in Large-Scale Industry: By Categories of Labor and by Republics, Regions and Territories

(As of January 1, 1936)

Republics, Regions and Territories	Workers	Apprentices	Engineers and technicians	Salaried employees	Non-skilled occupations	Total personnel	Per cent of total for the U.S.S.R.
A	1	2	3	4	5	6	7
U. S. S. R.	5,903.8	269.2	509.1	467.9	343.6	7,493.6	100.0
1. R. S. F. S. R.	4,253.2	194.6	367.0	350.7	245.9	5,411.4	72.2
Northern Territory	65.0	3.0	3.5	4.5	2.9	78.9	1.1
Including: Komi Autonomous Region	2.1	0.2	0.1	0.2	0.1	2.7	0.0
Karelian A.S.S.R.	17.3	0.5	1.0	1.2	0.8	20.8	0.3
Leningrad Region	654.5	28.1	65.7	55.7	33.4	837.4	11.2
Kalinin Region	94.8	3.7	5.8	6.3	4.4	115.0	1.5
Western Region	112.9	4.9	9.0	7.9	5.9	140.6	1.8
Moscow Region	1,071.2	50.4	100.9	89.7	57.6	1,369.8	18.3
Ivanovo Region	404.0	16.6	22.6	27.9	15.9	487.0	6.5
Gorky Territory	182.8	7.9	18.5	15.9	12.0	237.1	3.2
Including: Chuvash A.S.S.R.	8.5	0.4	0.6	0.8	0.5	10.8	0.1
Maris Autonomous Region	5.0	0.3	0.3	0.4	0.3	6.3	0.0
Kirov Territory	76.1	3.5	6.2	6.0	4.4	96.2	1.3
Including: Udmurt A.S.S.R.	31.1	0.9	2.9	2.4	1.7	39.0	0.5
Tatar A.S.S.R.	56.2	3.3	4.7	4.5	3.5	72.2	1.0
Kuibyshev Territory	111.5	6.0	9.4	9.0	6.3	142.2	1.9
Including: Mordva A.S.S.R.	5.1	0.1	0.5	0.6	0.5	6.8	0.1
Saratov Territory	55.6	2.7	4.5	4.7	3.2	70.7	0.9
Including: Volga-German A.S.S.R.	8.6	0.5	0.6	0.7	0.4	10.8	0.1
Stalingrad Territory	91.1	3.5	7.9	8.0	5.7	116.2	1.6
Including: Kalmuk Autonomous Region	0.4	0.0	0.0	0.1	0.1	0.6	0.0
Voronezh Region	102.9	5.6	9.7	8.9	6.5	133.6	1.8
Kursk Region	45.1	1.9	3.4	3.8	3.3	57.5	0.8
Azov-Black Sea Territory	189.7	8.9	16.1	15.1	12.5	242.3	3.2
Including: Adigey Autonomous Region	1.0	0.0	0.1	0.2	0.2	1.5	0.0

Northern Caucasus Territory	45.0	2.8	4.8	4.6	3.3	60.5	0.8
Including: Checheno-Ingush Autonomous Region	16.4	1.2	2.1	1.4	1.1	22.2	0.3
Kabardino-Balkar Autonomous Region	4.2	0.1	0.4	0.5	0.4	5.6	0.1
Karachayev Autonomous Region	0.5	0.0	0.0	0.1	0.0	0.6	0.0
Northern Ossetia Autonomous Region	10.1	0.9	1.0	0.9	0.5	13.4	0.2
Cherkess Autonomous Region	0.7	0.0	0.1	0.1	0.0	0.9	0.0
Daghestan A.S.S.R.	6.6	0.5	0.6	0.9	0.7	9.3	0.1
Crimean A.S.S.R.	31.0	1.7	3.3	2.9	2.1	41.0	0.5
Bashkir A.S.S.R	33.3	1.6	2.7	3.1	2.1	42.8	0.6
Orenburg Region	14.9	0.9	1.4	1.7	1.1	20.0	0.3
Sverdlovsk Region	249.1	12.0	21.7	19.1	17.6	319.5	4.3
Cheliabinsk Region	137.5	5.7	11.5	10.2	8.9	173.8	2.3
Kazakhstan A.S.S.R.	59.2	2.4	4.8	5.9	5.4	77.7	1.0
Kirghiz A.S.S.R.	11.9	0.7	0.8	0.9	0.7	15.0	0.2
Omsk Region	32.2	2.2	2.7	3.1	2.5	42.7	0.6
West Siberian Territory	138.3	6.0	9.9	10.5	10.2	174.9	2.3
Including: Oirot Autonomous Region	0.2	0.0	0.0	0.1	0.0	0.3	0.0
Krasnoyarsk Territory	35.7	1.7	2.6	4.1	3.0	47.1	0.6
Including: Khakass Autonomous Region	8.0	0.2	0.5	0.9	0.8	10.4	0.1
East Siberian Territory	57.6	2.5	4.9	6.1	4.0	75.1	1.0
Buriat-Mongolian A.S.S.R.	11.2	0.5	1.1	1.3	0.7	14.8	0.2
Yakut A.S.S.R.	6.6	0.3	0.5	0.8	0.7	8.9	0.1
Far Eastern Territory	52.4	2.6	4.8	6.4	4.6	70.8	0.9
Including: Jewish Autonomous Region	0.6	0.0	0.0	0.1	0.1	0.8	0.0
II. **Ukrainian S. S. R.**	1,308.6	54.9	111.5	84.9	76.9	1,636.8	21.8
Kiev Region	129.1	7.2	12.3	11.9	9.0	169.5	2.3
Chernigov Region	36.2	1.4	2.9	2.8	2.5	45.8	0.6
Vinnitsa Region	56.5	1.5	4.6	4.3	2.9	69.8	0.9
Kharkov Region	203.0	10.7	21.3	17.3	12.9	265.2	3.5
Dnepropetrovsk Region	214.2	9.9	17.9	13.6	13.2	268.8	3.6
Odessa Region	113.9	6.7	11.5	9.7	7.0	148.8	2.0
Donetz Region	550.3	17.1	40.5	24.7	28.7	661.3	8.8
Moldavian A.S.S.R.	5.4	0.4	0.5	0.6	0.7	7.6	0.1
III. **White Russian S. S. R.**	118.1	4.7	8.6	8.7	6.5	146.6	2.0
IV. **Transcaucasian S. F. S. R.**	140.8	9.6	15.6	14.1	9.3	189.4	2.5
Azerbaidjan S.S.R.	80.7	5.4	9.9	7.6	4.9	108.5	1.4
Georgian S.S.R.	45.3	3.1	4.5	5.0	3.5	61.4	0.8
Armenian S.S.R.	14.8	1.1	1.2	1.5	0.9	19.5	0.3
V. **Uzbek S. S. R.**	60.1	4.3	4.8	6.9	3.6	79.7	1.1
VI. **Turkmenian S. S. R.**	15.1	0.6	1.1	1.7	0.9	19.4	0.3
VII. **Tadjik S. S. R.**	7.9	0.5	0.5	0.9	0.5	10.3	0.1

Number of Workers Engaged in Large-Scale Industry: (Exclusive of

(As of January

Branches of Industry	U. S. S. R.	R. S. F. S. R	I n c l u					
			Northern Territory	Karelian A.S.S.R.	Leningrad Region	Kalinin Region	Western Region	Moscow Region
A	1	2	3	4	5	6	7	8
All industries	5,903,760	4,253,231	65,005	17,283	654,482	94,813	112.939	1.071,242
Comprising:								
Electric generating stations.	57,257	39,085	841	100	4,162	942	1,246	7,308
Coal mining	427,570	159,600	—	—	—	—	—	22,954
Crude petroleum production¹)	42,735	16,113	—	—	—	—	—	—
Iron ore mining	38,552	16,274	—	—	—	—	—	1,583
Chemical industry²)	200,525	140,641	1,210	—	18,515	631	56	41,725
Cement industry	29,462	21,991	—	—	1,099	—	1.516	2,849
Ferrous metals industry . .	318,467	164,830	—	—	2,398	—	-	17,701
Machine-building and metal-working industries . . .	1,784,979	1,374,519	15,797	1,596	271,322	15,4[illegible]	45,908	384,238
Timber sawing and plywood industry	201,308	171,453	29,221	9,505	20,177	5,781	5,953	5,054
Paper industry	44,261	36,876	3,926	1,066	11,455	2,222	3,482	716
Printing, stationery and allied industries	87,293	69,388	528	280	15,632	559	791	33,521
Cotton industry	448,338	433,026	—	—	43,966	27.275	6,034	181,249
Production of linen fabrics	95,417	91,158	3,016	—	2,120	—	—	1,836
Woolen industry	68,931	62,512	—	—	4,236	716	3,699	34,195
Leather and fur industry .	74,842	64,256	293	—	12,694	2,365	738	12,177
Needle industries	201,873	141,017	684	—	26,052	5,307	4,792	49,417
Boot and shoe industry . .	86,369	65,939	81	—	20,882	2.073	192	17,088
Food industry	602,036	377,134	2,948	506	44,720	3,797	8,424	69,209
Including:								
Sugar industry	115,731	29,426	—	—	—	—	448	2,826
Confectionery	59,410	37,853	—	—	9,493	280	—	16,017

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¹) Including drilling of new oil wells.
²) Including manufactured fuel.

Table 9

Apprentices): By Republics, Regions and Territories

1, 1936)

sive of:

Ivanovo Region	Gorky Territory	Tatar A.S.S.R.	Saratov Territory	Stalingrad Territory	Voronezh Region	Azov-Black Sea Territory	Crimean A.S.S.R.	Bashkir A.S.S.R.	Sverdlovsk Region	Cheliabinsk Region	Kazakhstan A.S.S.R.	Kirghiz A.S.S.R.
9	10	11	12	13	14	15	16	17	18	19	20	21
404,031	182,855	56,179	55,611	91,075	102,862	189,727	31,016	33,299	249,101	137,513	59,179	11,936
2,993	1,607	773	1,043	624	981	1,804	481	469	2,421	1,650	729	62
—	—	—	—	—	—	31,894	—	—	13,937	8,861	10,434	5,361
—	—	—	—	—	—	3,017	—	1,576	143	—	3,835	—
—	—	—	—	—	2,009	—	436	604	4,683	5,158	—	—
8,976	9,078	5,932	1,046	1,244	6,877	2,402	1,943	630	12,328	10,088	1,136	3
—	—	—	4,972	7	496	5,630	—	—	1,938	286	80	—
—	13,184	—	—	9,894	5,378	12,800	6,501	3,746	52,287	19,715	—	—
59,804	95,180	10,683	22,414	45,094	39,287	62,531	8,221	6,656	73,058	45,416	4,989	—
7,548	10,518	3,938	4,491	11,417	1,787	1,373	—	3,282	8,773	1,428	652	—
1,221	3,000	—	—	—	—	792	—	188	5,511	338	—	—
1,083	1,163	941	879	561	851	2,075	546	408	1,564	586	995	238
165,291	958	133	3,126	184	59	690	—	—	81	—	—	—
70,949	5,150	2,767	—	—	—	—	—	—	1,856	617	—	—
261	1,033	121	—	—	4,811	—	—	533	1,145	—	220	—
1,827	3,810	5,516	781	435	1,059	6,444	369	250	145	941	1,140	81
5,571	4,163	8,285	1,359	1,845	1,295	6,839	1,812	1,799	3,286	342	820	342
3,073	902	2,116	458	119	47	5,960	897	284	1,549	60	298	59
16,139	11,211	6,514	9,449	11,109	25,392	26,782	4,467	5,524	9,711	9,255	9,814	2,835
—	—	—	—	—	5,629	1,127	—	—	—	—	982	1,185
1,269	942	1,064	—	444	728	1,423	251	600	1,228	—	—	—

Branches of Industry	I n c l u							
	Omsk Region	East Siberian Territory	Yakut A.S.S.R.	Far Eastern Territory	Ukrainian S.S.R.	Kiev Region	Chernigov Region	Vinnitsa Region
A	22	23	24	25	26	27	28	29
All industries	32.168	138.297	6.589	52.387	1,308,546	129,100	36,169	56,460
Comprising:								
Electric generating stations	493	1,425	31	1,124	12,991	1.445	227	329
Coal mining	—	42,269	139	9,711	265,642	213	—	—
Crude petroleum production[1]	—	—	—	1.418	—	—	—	—
Iron ore mining	—	1.801	—	—	22,278	—	—	—
Chemical industry [2] . . .	527	4,153	—	50	49,593	1.141	4.212	545
Cement industry	—	1,722	—	803	4,410	—	—	—
Ferrous metals industry . .	—	17,774	—	—	152.964	—	—	—
Machine-building and metal-working industries . . .	13,148	17,011	388	16,079	357,415	34,915	7,116	4,699
Timber sawing and plywood industry	5.989	6.825	160	4,156	12,430	5,642	1,453	1,187
Paper industry	—	17	—	—	3,341	787	—	1,808
Printing, stationery and allied industries	448	1,105	169	735	10,796	2,593	198	400
Cotton industry	—	2.922	—	—	949	880	—	—
Production of linen fabrics.	—	997	—	—	628	—	—	—
Woolen industry	361	—	—	—	4,423	975	—	481
Leather and fur industry .	805	2,111	250	184	6,322	811	414	1,084
Needle industries	157	3,918	—	336	31,662	7,734	256	2,010
Boot and shoe industry . .	391	1,265	—	—	13,796	6,320	423	307
Food industry	4,833	13,405	60	6,057	178,103	37,442	15.615	34,782
Comprising:								
Sugar industry	—	488	—	475	86,037	22,311	10,818	27,065
Confectionery	70	452		636	16,438	4,347	213	912

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[1] Including drilling of new oil wells.
[2] Including manufactured fuel.

able 9 (Continued)

s v e o f:							Inclusive of:					
Kharkov Region	Dnlepropetrovsk Region	Odessa Region	Donetz Region	Moldavian A.S.S.R.	White Russian S.S.R.	Transcaucasian S.F.S.R.	Azerbaidjan S.S.R.	Georgian S.S.R.	Armenian S.S.R.	Uzbek S. S. R.	Turkmenian S. S. R.	Tadjik S. S. R.
30	31	32	33	34	35	36	37	38	39	40	41	42
202,968	214,230	113,914	550,324	5,381	118,113	140,820	80,743	45,326	14,751	60,101	15,114	7,835
1,888	1,191	1,337	6,372	202	2,010	1,752	1,005	602	145	1,125	229	65
—	286	201	264,942	—	—	2,090	—	2,090	—	—	—	238
—	—	—	—	—	—	24,993	24,600	393	—	620	739	270
—	22,278	—	—	—	—	—	—	—	—	—	—	—
2,042	6,684	1,193	33,776	—	3,058	7,008	5,191	1,337	480	115	80	30
120	1,133	—	3,157	—	631	1,528	785	333	410	902	—	—
—	71,312	954	80,698	—	—	673		673	—	—	—	—
97,032	67,258	61,100	85,018	277	15,448	25,107	16,464	7,816	827	9,498	2,413	579
1,893	532	1.337	107	279	15,473	1,932	472	1,328	132	20	—	—
342	296	108	—	—	3,835	—	—	—	—	209	—	—
3,402	1,060	1,757	1,144	242	1,924	2,932	1,188	1,268	476	1,745	284	224
41	28	—	—	—	929	7,146	4,393	360	2,393	5,544	744	—
—	—	—	628	—	3,631	—	—	—	—	—	—	—
2,430	—	537	—	—	160	1,836	404	1,432	—	—	—	—
1,929	—	1,693	362	29	2,143	1,014	620	275	119	1,107	—	—
8,299	4,658	4,667	3,630	408	12,440	11,129	5,770	4,273	1,086	4,751	473	401
3,314	881	2,005	546	—	2,901	2,151	533	1,593	25	1,482	100	—
45,941	10,093	20,338	11,671	2,221	15,634	15,255	5,968	6,612	2,675	12,067	2,502	1,341
21,009	350	4,049	—	435	—	268	—	268	—	—	—	—
5,741	666	4,050	509	—	3,270	849	415	324	110	443	343	214

Number of Apprentices in Large-

(As at January 1

Branches of Industry	Absolute figures		
	1929	1930	1931
A	1	2	3
All industries	133.2	135.7	353.0
Comprising:			
Electric generating stations	1.4	1.1	2.1
Fuel extraction	9.2	10.4	25.9
Including:			
Coal mining	7.0	8.9	21.0
Crude petroleum production [1]	2.0	1.4	4.1
Ore mining	1.6	1.7	3.7
Including:			
Iron ore mining	0.6	0.6	2.1
Chemical industry [2]	2.3	3.0	9.1
Ferrous metals industry	8.9	10.0	25.8
Machine-building and metal-working industries	33.8	37.6	144.1
Rubber and asbestos industry	0.9	0.5	2.8
Woodworking industry	5.1	6.0	13.5
Paper industry	1.7	1.7	5.3
Printing and publishing	4.0	3.5	12.3
Textile industry [3]	34.4	27.4	44.8
Including:			
Cotton industry	25.2	18.7	29.1
Production of linen fabrics	2.9	2.7	5.2
Woolen industry	3.8	3.0	5.1
Leather and fur industry	1.8	2.1	4.4
Needle industries	4.2	5.4	14.3
Boot and shoe industry	2.6	3.0	6.1
Food industry	10.8	9.0	13.2

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[1] Including drilling of new oil wells.

[2] Including manufactured fuel.

[3] Exclusive of knitted goods and felt goods.

Note. The decrease in the number of apprentices from Jan. 1, 1933 is due to the
two years to six months or one year. The said reorganization brought about a considerable increase

Table 10

Scale Industry, 1929-1936

of respective year)

(in thousands)					Per cent of total number of workers							
1932	1933	1934	1935	1936	1929	1930	1931	1932	1933	1934	1935	1936
4	5	6	7	8	9	10	11	12	13	14	15	16
567.9	**463.3**	**273.1**	**237.8**	**269.2**	**5.0**	**4.6**	**9.1**	**12.1**	**9.9**	**5.5**	**4.5**	**4.6**
4.5	5.2	2.7	2.5	2.3	7.7	4.8	6.2	10.2	10.9	5.0	4.5	4.1
44.0	40.8	20.4	13.8	13.4	3.0	3.2	7.0	8.8	8.5	3.8	2.6	2.6
40.1	36.6	16.5	10.5	9.9	2.6	3.0	6.7	9.8	9.1	3.9	2.5	2.3
2.2	2.3	3.1	2.6	2.5	6.5	4.5	11.0	5.3	5.2	7.1	5.5	5.8
7.1	7.3	4.4	4.5	4.2	2.7	2.1	4.6	5.3	5.4	3.5	3.5	3.0
4.0	3.7	2.4	2.2	1.6	2.3	1.7	6.2	8.8	10.6	6.0	5.2	4.2
15.7	16.2	9.3	9.8	9.2	4.0	3.9	8.0	11.0	10.6	5.5	5.1	4.6
50.6	36.3	18.1	11.9	12.8	4.7	5.0	11.2	19.6	13.8	6.0	3.7	4.0
239.5	185.6	102.6	90.8	116.0	7.2	6.2	14.3	19.2	15.3	7.9	6.5	6.5
3.5	1.4	0.8	1.4	1.4	3.8	1.8	9.6	6.3	3.1	2.0	2.7	2.5
16.0	16.2	10.1	9.6	10.7	4.5	3.7	5.9	6.3	6.4	3.8	3.4	3.4
4.4	4.6	2.6	1.7	1.8	5.7	5.1	14.6	11.1	11.0	5.6	4.0	4.1
17.7	13.6	9.8	10.8	10.3	7.5	5.7	17.8	25.9	21.3	14.7	14.5	11.8
59.7	50.7	34.6	30.0	29.4	4.9	4.1	7.3	9.1	7.7	5.1	4.1	3.8
37.9	31.8	21.1	20.3	18.5	5.1	4.3	7.9	9.1	7.7	5.1	4.5	4.1
6.3	5.0	2.7	1.7	1.7	3.3	2.9	5.7	9.7	8.2	4.7	2.1	1.7
8.2	7.3	5.6	4.6	4.6	6.0	4.4	7.1	10.3	9.6	7.6	6.4	6.6
5.2	4.3	3.4	2.9	3.5	4.3	4.0	6.5	7.3	6.4	5.8	4.5	4.7
23.4	17.2	12.5	9.8	10.5	7.1	6.8	10.0	13.6	8.9	6.5	4.9	5.2
8.7	8.0	5.1	3.6	5.5	6.8	4.8	6.9	10.2	9.6	6.8	5.1	6.4
21.0	21.0	13.7	11.6	14.1	4.3	4.1	3.6	4.9	4.9	2.7	2.2	2.3

reorganization of the factory school system, consisting of a reduction in the term of study from
in the number of apprentices graduated from factory schools.

Table 11

Female and Juvenile Labor in Large-Scale Industry: 1928-1935

(Including apprentices)

As at January 1	Total number of workers, including apprentices (in thousands)	Including: Absolute figures (thousands)		Including: Per cent of total number of workers	
		Women	Juveniles from 16 to 18 years old	Women	Juveniles from 16 to 18 years old
A	1	2	3	4	5
1928	2,531.9	725.9	120.1	28.7	4.7
1929	2,788.7	804.0	116.8	28.8	4.2
1930	3.116.2	885.0	127.8	28.4	4.1
1931	4.256.4	1.271.5	327.4	29.9	7.7
1932	5,271.3	1,735.4	521.8	32.9	9.9
1933	5.139.7	1.826.2	483.1	35.5	9.4
1934	5,215.0	1.918.4	358.3	36.8	6.8
1935 (July 1) ¹)	5,872.6	2,321.9	333.8	39.5	5.7

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¹) Exclusive of Yakut A.S.S.R. and Kara-Kalpak A.S.S.R.

Table 12

Number of Women Among All Workers in Large-Scale Industry: 1913-1935

(Including apprentices)

Branches of Industry	Annual average		As at Jan. 1,	As at July 1,
	1913	1928	1932	1935[1]
A	1	2	3	4
A. Absolute figures (in thousands)				
All industries	**635.9**	**769.3**	**1,735.4**	**2,321.9**
Including:				
1. Extraction and dressing of minerals	41.4	40.7	90.6	178.1
2. Mining and metallurgical industries	24.5	40.7	153.3	321.7
Including:				
Coal mining	7.1	19.3	65.5	99.5
3. Machine-building and metal-working industries	15.0	42.2	299.9	434.0
4. Woodworking industry	10.3	17.6	75.3	123.7
5. Chemical industry	30.3	32.6	90.6	102.0
6. Food industry	81.6	55.5	150.1	218.5
7. Processing of raw materials of animal origin (including the leather and fur industries and production of boots and shoes)	6.9	16.8	75.9	85.9
8. Textile industry (including the needle industries and production of haberdashery)	401.8	496 4	695.8	736.7
Inclusive of:				
Cotton industry	278.1	316.5	313.1	320.1
Wool industry	35.6	34.7	50.8	47.1
Flax, hemp and jute industry	46.4	74.0	73.1	no data
B. Per cent of total number of workers				
All industries	**24.5**	**28.6**	**32.9**	**39.5**
Including:				
1. Extraction and dressing of minerals	21.8	22.4	25.9	37.5
2. Mining and metallurgical industries	4.0	6.8	14.8	26.8
Including:				
Coal mining	3.6	7.6	14.6	24.0
3. Machine-building and metal working industries	4.2	8.9	20.7	25.8
4. Woodworking industry	9.9	17.2	29.6	39.7
5. Chemical industry	39.9	34.3	38.2	40.0
6. Food industry	22.0	26.4	33.3	44.9
7. Processing of raw materials of animal origin (including the leather and fur industry and production of boots and shoes)	17.3	21.1	42.5	56.0
8. Textile industry (including the needle industries and production of haberdashery)	55.7	61.2	69.1	72.3
Inclusive of:				
Cotton industry	56.6	61.3	67.3	69.8
Wool industry	41.7	49.7	58.1	63.1
Flax, hemp and jute industry	55.0	64.9	64.3	no data

[1] Exclusive of Yakut A.S.S.R. and Kara-Kalpak A.S.S.R.

Table 13

Distribution of Large-Scale Industries According to Wage Level of Workers

(Exclusive of apprentices)

Branches of Industry	Average monthly wages (in rubles)				Per cent of average monthly wages in all industries				Rank according to average monthly wage-level			
	1928	1932	1934	1935	1928	1932	1934	1935	1928	1932	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
All industries	70.24	115.42	147.30	185.32	100.0	100.0	100.0	100.0	—	—	—	—
Including:												
1. Metal-working equipment and machine-building industries (including production of electrical equipment)	91.29	141.39	174.93	214.55	130.0	122.5	118.8	115.8	1	2	3	3
2. Printing, stationery and allied industries .	90.34	122.84	150.86	186.69	128.6	106.4	102.4	100.7	2	5	7	8
3. Electric generating stations	87.48	146.38	175.71	216.81	124.5	126.8	119.3	117.0	3	1	2	2
4. Production of boots and shoes	86.72	112.11	133.76	163.76	123.5	97.1	90.8	88.4	4	9	9	9
5. Leather and fur industry	85.70	111.46	130.06	162.51	122.0	96.6	88.3	87.7	5	10	10	10
6. Chemical industry [1])	82.09	122.62	149.16	192.79	116.9	106.2	101.3	104.0	6	6	8	7
7. Needle industries	79.79	95.11	111.23	145.40	113.6	82.4	75.5	78.5	7	14	16	15
8. Petroleum industry [2])	78.47	129.98	182.94	223.39	111.7	112.6	124.2	120.5	8	4	1	1
9. Ferrous metals industry	75.61	132.24	169.30	209.09	107.6	114.6	114.9	112.8	9	3	4	5
10. Food industry	68.06	96.18	113.33	143.40	96.9	83.3	76.9	77.4	10	13	15	16
11. Paper industry	67.04	111.18	121.58	154.91	95.4	96.3	82.5	83.6	11	11	14	13
12. Iron ore mining	65.61	113.96	162.68	203.34	93.4	98.7	110.4	109.7	12	8	5	6
13. Woolen industry	63.73	90.16	122.19	149.76	90.7	78.1	83.0	80.8	13	15	13	14
14. Coal mining	63.27	122.08	158.55	212.97	90.1	105.8	107.6	114.9	14	7	6	4
15. Woodworking industry	60.98	105.34	131.38	160.62	86.8	91.3	89.2	86.7	15	12	11	11
16. Cotton industry	59.89	85.89	125.05	159.79	85.3	74.4	84.9	86.2	16	16	12	12
17. Production of linen fabrics	41.58	70.60	101.63	128.85	59.2	61.2	69.0	69.5	17	17	17	17

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[1]) The chemical industry comprises (according to an old classification in effect prior to 1935): rubber, matches, soap, perfumery, grease and tallo industries, and is exclusive of petroleum refining and production of illuminating gas.

[2]) Including drilling of new oil wells.

Table 14

Average Monthly Wages of Workers in Large-Scale Industry

(Exclusive of apprentices)

Branches of Industry	Absolute figures (in rubles)							Per cent of 1928					
	1929	1930	1931	1932	1933	1934	1935	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13
All industries	**77.06**	**82.59**	**96.10**	**115.42**	**126.08**	**147.30**	**185.32**	**117.6**	**136.8**	**164.3**	**179.5**	**209.7**	**263.8**
Including:													
1. Fuel industry	69.78	77.04	98.95	119.88	129.88	156.51	208.28	120.7	155.0	187.8	203.4	245.2	326.3
Inclusive of.													
Coal mining	68.81	76.47	97.74	122.08	132.60	158.55	212.97	120.9	154.5	193.0	209.6	250.6	336.6
Crude petroleum production [1]	85.50	90.15	114.09	130.15	153.58	188.72	227.74	115.7	146.4	167.0	197.0	242.1	292.2
2. Ore mining	65.86	74.33	88.55	105.07	123.98	161.44	206.24	118.8	141.5	168.0	198.2	258.1	329.7
Including:													
Iron ore mining	66.04	73.85	92.03	113.96	133.44	162.68	203.34	112.6	140.3	173.7	203.4	248.0	309.9
3. Ferrous metals industry	83.82	88.30	103.42	132.24	142.65	169.30	209.09	116.8	136.8	174.9	188.7	223.9	276.5
4. Machine-building and metal-working industries (including production of electrical equipment)	100.80	106.09	117.81	141.39	151.84	174.93	214.55	116.2	129.1	154.9	166.3	191.6	235.0
5. Chemical industry [2]	83.91	90.63	104.21	125.92	136.43	156.32	200.82	115.2	132.5	160.1	173.4	198.7	255.3
6. Timber sawing and plywood industry	65.60	72.90	80.95	105.34	114.20	131.38	160.62	119.5	132.7	172.7	187.3	215.4	263.4
7. Paper industry	75.53	82.50	92.12	111.18	110.83	121.58	154.91	123.1	137.4	165.8	165.3	181.4	231.1
8. Leather and fur industry	87.74	88.29	95.02	111.46	115.79	130.06	162.51	103.0	110.9	130.1	135.1	151.8	189.6
9. Textile industry [3]	62.60	62.83	70.92	85.43	101.87	119.86	152.50	108.9	122.9	148.0	176.5	207.7	264.2
Including:													
Cotton industry	65.00	64.29	72.05	85.89	103.85	125.05	159.79	107.3	120.3	143.4	173.4	208.8	266.8
Woolen industry	68.70	70.62	74.91	90.16	101.90	122.19	149.76	110.8	117.5	141.5	159.9	191.7	234.9
Production of linen fabrics	46.34	47.43	56.61	70.60	89.55	101.63	128.85	114.1	136.1	169.8	215.4	244.4	309.9
10. Food industry	74.43	74.71	82.46	96.18	102.41	113.33	143.40	109.8	121.2	141.3	150.5	166.5	210.7
11. Needle industries	85.84	81.70	81.87	95.11	97.03	111.23	145.40	102.4	102.6	119.2	121.6	139.4	182.2
12. Production of boots and shoes	86.49	88.78	96.71	112.11	120.24	133.76	163.76	102.4	111.5	129.3	138.7	154.2	188.8
13. Printing, stationery and allied industries	94.87	100.90	108.89	122.84	130.26	150.86	186.69	111.7	120.5	136.0	144.2	167.0	206.7

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[1] Including drilling of new oil wells.
[2] Including manufactured fuel.
[3] Exclusive of knitted goods and felt goods.

Table 15

Piece-Work Hours in Per cent of Total Number of Work-Hours in Large-Scale Industry

Branches of Industry	1928	1932	1935
A	1	2	3
All industries	57.5	63.7	69.8
Including:			
1. Electric generating stations	–	33.1	34.5
2. Coal mining	50.7	64.0	63.7
3. Crude petroleum production	12.0	37.8	41.5
4. Iron ore industry	—	66.2	66.1
5. Chemical industry [1]	58.6	58.1	60.3
6. Cement industry	—	61.3	64.9
7. Ferrous metals industry	68.8	63.9	67.7
8. Machine-building and metal-working industries	62.8	64.8	70.0
9. Cotton industry	69.1	67.6	67.8
10. Production of linen fabrics	70.2	64.6	74.5
11. Woolen industry	59.8	61.7	64.2
12. Food industry	23.5	55.0	65.9

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[1]) See footnote to Table 13.

Table 16

Average Monthly Earnings of Engineers, Technicians, Salaried Employees and Non-Skilled Workers in Large-Scale Industry

(in rubles)

Branches of Industry	Engineers and technicians				Salaried employees				Non-skilled workers			
	1931 [1]	1932	1934	1935	1931	1932	1934	1935	1931	1932	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
All industries	**232.31**	**302.83**	**379.43**	**436.97**	**137.50**	**173 00**	**209.02**	**234.20**	**64.70**	**74.00**	**89.05**	**118.88**
Inclusive of:												
1. Fuel industry	269.55	330.89	433.11	509.86	170.87	218.91	249.16	285.52	54.01	63.34	77.32	109.10
Including:												
Coal mining	288.85	358.62	477.82	560 69	179.61	235.87	282.64	319.01	52.33	62.57	78.92	109.96
Crude petroleum production [2]	254.19	314.13	420 75	497.53	141.23	177.08	199.73	253 36	66.12	62.00	86.23	131.76
2. Ore mining	232.42	304.86	472.71	550.19	147.91	188.06	240.14	283.18	50.10	55.76	84.25	111.02
Including:												
Iron ore mining	256.45	347.41	479.96	536.71	159.08	199.55	244.54	265.51	48.59	63.52	77.22	108.77
3. Ferrous metals industry	278.37	353.06	523.99	608.13	137.90	197.15	236 61	270.19	57.18	68.58	86.49	113.49
4. Machine-building and metal-working industries (including production of electrical equipment)	244.73	316.76	387 54	452.27	136.59	173.72	204.08	231.97	72.61	84.29	97.33	129.56
5. Chemical industry [3]	239.06	298.38	386.03	460.69	147.30	184.56	223.19	259.02	72.29	78.07	96.92	135.39
6. Timber sawing and plywood industry	178.31	244.91	328.00	368 86	123.18	161.13	184.61	212.60	61.38	71.77	81.78	103.75
7. Paper industry	232.41	287.63	338.99	387.49	135.95	166 21	189.51	216.57	69.62	74.66	75.93	101.36
8. Leather and fur industry	198.65	256.73	319.09	359.06	129.97	170.89	206.33	228.27	65.27	81.78	97.11	122.97
9. Textile industry [4]	223.99	291.18	351.67	398 81	127.06	156.37	187.75	211.33	70.15	84.10	99.08	129.38
Including:												
Cotton industry	225.60	294.95	362.92	415.94	127.52	153.73	181.24	206.41	75.28	89.64	106.53	138.06
Woolen industry	220.64	283.20	369.17	413.11	122.07	157.02	187.07	207.19	67.28	82.28	102.96	126 57
Production of linen fabrics	206.31	264.86	325 10	354.08	106.87	139.41	163.25	178.97	51.49	62.39	87.63	117.08
10. Food industry	199.64	247.06	294.98	328.45	126.02	157.25	190.75	215.34	57.54	67.27	78.18	103.49
11. Needle industries	166.09	216.27	252.73	291.04	133.20	160.53	194.37	221.33	70.85	81.43	97.21	121.29
12. Production of boots and shoes	189.15	248.08	305.40	358.96	131.35	172.89	204.12	223.94	62.24	81.24	101.64	120.23
13. Printing, stationery and allied industries	208.45	257.54	329.96	390.99	139.89	176.13	207.94	237.38	64.75	81.29	91.24	116.89

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[1] Administrative personnel.
[2] Including drilling of new oil wells.
[3] Including manufactured fuel.
[4] Exclusive of knitted goods and felt goods.

Table 17

Length of Normal Working Day for Adult Workers in Large-Scale Industry

(In hours)

Branches of Industry	Men			Women			Total		
	1913	1928	1934	1913	1928	1934	1913	1928	1934
A	1	2	3	4	5	6	7	8	9
All industries	**10.0**	**7.8**	**6.97**	**9.7**	**7.9**	**7.0**	**9.9**	**7.8**	**6.98**
Including:									
Electric generating stations	8.7	7.9	7.0	—	8.0	7.0	8.7	7.9	7.0
Coal mining	10.1	7.3	6.8	9.9	8.0	7.0	10.1	7.3	6.8
Crude petroleum production [1]	8.5	8.0	7.0	—	7.6	7.0	8.5	8.0	7.0
Iron ore mining	10.0	7.9	7.0	10.0	8.0	7.0	10.0	7.9	7.0
Chemical industry	9.6	7.8	6.9	9.8	7.9	6.9	9.6	7.8	6.9
Glass industry	9.2	7.2	6.5	9.5	7.4	6.6	9.3	7.2	6.5
China and pottery industry	10.2	7.9	7.0	10.0	7.9	7.0	10.1	7.9	7.0
Ferrous metals industry	10.1	7.9	7.0	9.5	7.9	6.9	10.1	7.9	6.9
Non-ferrous metals industry	9.9	7.7	6.8	8.0	8.0	6.8	9.8	7.7	6.8
Machine-building and metal-working industries	9.8	7.9	7.0	9.4	7.9	7.0	9.7	7.9	7.0
Rubber industry	9.8	7.9	7.0	10.0	8.0	7.0	9.9	7.9	7.0
Woodworking industry	10.3	8.0	7.1	10.2	8.0	7.1	10.3	8.0	7.1
Match industry	10.6	8.0	7.3	10.4	8.0	7.3	10.5	8.0	7.3
Paper industry	10.0	7.9	7.0	9.9	7.9	7.0	10.0	7.9	7.0
Printing and publishing	8.9	7.8	7.0	9.1	7.9	7.0	9.0	7.8	7.0
Cotton industry	9.5	7.8	7.0	9.3	7.8	7.0	9.4	7.8	7.0
Woolen industry	10.2	7.9	7.0	10.0	7.9	7.0	10.1	7.9	7.0
Silk industry	10.0	8.0	7.0	9.7	8.0	7.0	9.8	8.0	7.0
Production of linen fabrics	10.1	8.0	7.0	9.9	8.0	7.0	9.9	8.0	7.0
Hemp and jute industry		8.0	7.0		8.0	7.0		8.0	7.0
Leather and fur industry	10.0	8.0	7.0	10.1	8.0	7.0	10.0	8.0	7.0
Knitting industry	9.8	8.0	7.0	9.8	8.0	7.0	9.8	8.0	7.0
Needle industries	10.1	8.0	7.0	9.8	8.0	7.0	9.8	8.0	7.0
Boot and shoe industry	9.9	8.0	7.0	9.9	8.0	7.0	9.9	8.0	7.0
Flour milling industry	11.1	7.9	7.2	10.9	8.0	7.1	11.1	7.9	7.1
Bread baking	9.9	8.0	7.1	9.9	8.0	7.1	9.9	8.0	7.1
Confectionery	9.9	8.0	7.0	9.9	8.0	7.0	9.9	8.0	7.0
Beer industry	10.5	8.0	7.0	10.4	8.0	7.0	10.5	8.0	7.0
Tobacco industry	9.6	7.3	7.0	9.8	7.2	7.0	9.7	7.2	7.0

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[1] Including drilling of new oil wells.

Absenteeism for Non-Valid Reasons in Principal Branches of Large-Scale Industry, 1929-1935

Branches of Industry	Average number of working days missed per worker for non-valid reasons						
	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7
All industries	**4.09**	**4.49**	**5.96**	**5.96**	**0.93**	**0.67**	**0.76**
Including:							
1. Ferrous metals industry	3.67	4.27	5.63	4.21	0.54	0.45	0.63
2. Machine-building and metal-working industries	2.60	4.37	5.83	5.24	0.55	0.46	0.53
3. Coal mining	19.19[1]	13.78[1]	13.32[1]	10.52[1]	1.93	1.33	1.65
4. Chemical industry [2]	1.45	3.08	4.48	4.18	0.62	0.42	0.39
5. Food industry	1.59	2.43	3.91	3.85	0.76	0.55	0.63
6. Cotton industry	0.86	1.60	4.30	7.12	0.68	0.36	0.29
7. Woolen industry	0.88	2.01	3.72	4.39	0.55	0.35	0.18
8. Woodworking industry	3.05	4.88	7.49	7.22	1.80	0.93	0.99
9. Paper industry	0.87	1.66	3.20	3.92	0.78	0.61	0.46
10. Clothing industries and haberdashery	1.81	2.54	3.53	4.50	0.67	0.49	0.33
11. Printing, stationery and allied industries	1.43	2.36	3.32	3.86	0.33	0.29	0.32

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[1] The high number of working days missed for non-valid reasons in the coal industry is due to the fact that prior to 1930 reports from the Donetz Basin did not distinguish between absence for unsatisfactory reasons and absence due to the reduced number of obligatory working days for face workers.

[2] Including manufactured fuel.

Table 19

Labor Turnover in Principal Branches of Large-Scale Intdustry, 1928-1935

(Per cent of average number of workers on pay-roll)

Branches of Industry	Accession rate								Separation rate							
	1928	1929	1930	1931	1932	1933	1934	1935	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
All industries	**100.8**	**122.4**	**176.4**	**151.2**	**127.1**	**124.9**	**100.5**	**91.6**	**92.4**	**115.2**	**152.4**	**136.8**	**135.3**	**122.4**	**96.7**	**86.1**
Including:																
Group "A"	118.8	154.8	207.6	160.8	136.4	132.4	103.3	93.7	110.4	140.4	177.6	145.2	144.1	130.1	99.9	89.2
Group "B"	79.2	84.0	129.6	133.2	111.0	111.9	95.9	87.7	72.0	86.4	115.2	124.8	119.8	109.2	91.2	80.4
Principal branches of industry																
1. Coal mining	140.4	201.6	307.2	232.8	185.4	129.2	90.7	95.9	132.0	192.0	295.2	205.2	187.9	120.7	95.4	99.1
2. Crude petroleum production 1)	36.0	39.6	98.4	92.4	100.4	118.9	101.0	86.4	42.0	44.4	90.0	87.6	112.4	102.3	92.1	92.8
3. Ferrous metals industry	78.0	98.4	163.2	139.2	113.3	104.7	75.8	69.5	69.6	90.0	145.2	127.2	117.1	97.9	69.9	71.0
4. Machine-building and metal-working industries	76.8	100.8	177.6	117.6	93.6	96.0	79.2	74.9	62.4	78.0	120.0	100.8	103.2	96.0	74.4	64.9
5. Iron ore mining	160.8	249.6	301.2	277.2	176.1	170.5	123.1	93.4	141.6	219.6	288.0	249.6	198.7	154.2	111.5	103.3
6. Chemical industry 2)	112.0	122.9	190.1	148.1	129.7	127.9	91.3	77.0	107.3	110.7	159.0	126.2	131.8	114.4	84.2	78.5
7. Cotton industry	37.2	25.2	48.0	80.4	63.4	59.3	46.9	42.8	31.2	37.2	62.4	68.4	72.2	61.2	43.1	45.9

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1) Including drilling of new oil wells.
2) Including manufactured fuel.

Table 20

Number of Wage-Earners and Salaried Employees in Building Construction, 1928-1935

(In thousands)

As at:	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
January 1	437.0	514.1	789.2	1,854.9	2,972.6	2,737.6	2,406.6	2,221.2
February 1	409.0	475.5	818.6	1,896.3	2,975.0	2,330.1	2,300.8	1,976.3
March 1	390.0	460.2	870.9	1,982.6	2,947.5	2,126.5	2,334.1	1,888.7
April 1	438.0	515.3	1,114.5	2,143.3	3,038.3	2,069.3	2,391.8	1,934.3
May 1	531.0	596.7	1,393.6	2,339.8	3,096.9	2,111.7	2,498.3	2,020.7
June 1	819.0	941.9	1,835.6	2,571.0	3,308.3	2,279.4	2,622.6	2,165.8
July 1	911.0	1,160.5	2,007.6	2,800.0	3,375.9	2,415.4	2,733.0	2,240.7
August 1	960.0	1,204.9	1,953.8	2,737.8	3,249.3	2,356.2	2,700.5	2,223.0
September 1	1,043.0	1,336.9	1,983.2	2,906.4	3,203.0	2,384.1	2,663.7	2,222.2
October 1	1.067.0	1,376.7	2.113.1	3,122.0	3,269.6	2,488.9	2,671.4	2,247.3
November 1	935.0	1,256.9	2,115.9	2,996.5	3,225.1	2,635.5	2,680.6	2,233.1
December 1	699.0	1,036.6	1,948.8	2,862.2	2,975.0	2,552.8	2,480.7	2,072.0
Average for the year	723.0	917.8	1,623.4	2,548.9	3,125.8	2,361.1	2,532.7	2,109.6

Note: Data for 1934 and 1935 are exclusive of small-scale building construction carried on by the different branches of service of the People's Commissariat of Railway Transport.

Table 21

Number of Wage-Earners and Salaried Employees on State Farms, 1927-1935

Date	Wage-earners				Salaried employees (including agronomists, engineers and technicians)	Grand total
	Permanent [1]	Seasonal	Temporary	Total		
A	1	2	3	4	5	6
As at July 1, 1927						
Absolute figures (thousands)	68.3	74.4	420.0	562.7	27.0	589.7
Per cent of total	11.6	12.6	71.2	95.4	4.6	100.0
As at July 1, 1928						
Absolute figures (thousands)	71.0	71.1	428.6	570.7	28.3	599.0
Per cent of total	11.9	11.9	71.5	95.3	4.7	100.0
As at July 1, 1929 [2]						
Absolute figures (thousands)	89.0	124.3	414.4	627.7	31.5	659.2
Per cent of total	13.5	18.8	62.9	95.2	4.8	100.0
As at August 1, 1930 [2]						
Absolute figures (thousands)	247.8	340.3	438.0	1,026.1	62.3	1,088.4
Per cent of total	22.8	31.3	40.2	94.3	5.7	100.0
As at August 1, 1931						
Absolute figures (thousands)	710.8	583.5	634.1	1,928.4	127.1	2,055.5
Per cent of total	34.6	28.4	30.8	93.8	6.2	100.0
As at August 1, 1932						
Absolute figures (thousands)	1,117.6	703.0	752.6	2,573.2	220.3	2,793.5
Per cent of total	40.0	25.2	26.9	92.1	7.9	100.0
As at July 1, 1933						
Absolute figures (thousands)	1,161.5	931.1	725.9	2,818.5	220.0	3,038.5
Per cent of total	38.2	30.7	23.9	92.8	7.2	100.0
As at July 1, 1934						
Absolute figures (thousands)	1,507.3	1,587.6		3,094.9	256.3	3,351.2
Per cent of total	45.0	47.4		92.4	7.6	100.0
As at July 1, 1935						
Absolute figures (thousands)	1,504.7	1,410.3		2,915.0	231.1	3,146.1
Per cent of total	47.8	44.8		92.6	7.4	100.0

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[1] Including apprentices and non-skilled workers.

[2] Exclusive of Tadjik S.S.R. and Turkmenian S.S.R.

Table 22

Number of Wage-Earners and Pay-Roll Index in Railway Transport, 1933-1934

Type of Service	Year	Average number of employees	Average monthly earnings (in rubles)	Total annual pay-roll disbursements (in thousands of rubles)
A	B	1	2	3
Total railway operating personnel [1]	1933	992,172	141	1,680,600
	1934	1,110,985	164	2,182,140
	1934 in per cent of 1933	112.0	116.3	129.8
Including:				
Locomotive service	1933 [2]	400,229 244,630	168 195	805,528 238,748
	1934	269,107	217	702,075
	1934 in per cent of 1933	110.0	111.3	—
Railway car service	1933 [3]	165,272	141	116,605
	1934	188,722	157	354,698
	1934 in per cent of 1933	114.2	111.3	—
Traffic operations	1933	297,300	119	425,356
	1934 [4]	319,417 312,320	152 149	584,476 559,653
	1934 in per cent of 1933	105.1	125.2	131.6
Permanent way	1933	208,600	105	261,733
	1934	266,502	120	382,689
	1934 in per cent of 1933	127.8	114.3	146.2
Communications service (telegraph and telephone)	1933	35,600	144	61,427
	1934	39,076	167	78,165
	1934 in per cent of 1933	109.8	116.0	127.2

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[1] Exclusive of apprentices, non-skilled labor, etc.

[2] Numerator: Locomotive and railway car service for total year, 1933; denominator: only locomotive service for August-December, 1933. Data for total year 1934 are conditionally compared with denominator figures.

[3] Data for August-December, 1933.

[4] Denominator: Exclusive of district traffic departments—for comparison with 1933, in which period district traffic departments were not included in figures for traffic operations but were incorporated only in "Total Railway Operating Personnel".

Table 23

Number of Wage-Earners and Pay-Roll Index in Railway Transport, 1933-1934:

By Railway Lines [1]

Railway Lines	Total railway operating personnel (average number of employees)			Average monthly earnings (in rubles)			Total annual pay-roll disbursements (in thousands of rubles)		
	1933	1934	1934 in per cent of 1933	1933	1934	1934 in per cent of 1933	1933	1934	1934 in per cent of 1933
A	1	2	3	4	5	6	7	8	9
Northern Railway	47,091	53,400	113.4	141	159	112.8	79,520	101,941	128.2
Kirov Railway (formerly Murmansk)	23,058	24,962	108.3	170	199	117.1	47,054	59,670	126.8
October "	57,397	60,695	105.7	147	166	112.9	101,373	120,996	119.4
Western "	48,246	58,433	121.1	126	142	112.7	73,032	99,502	136.2
Moscow-White Russian-Baltic Railway	40,497	49,738	122.8	140	158	112.9	68,178	94,593	138.7
Moscow-Kursk Railway	58,940	60,179	109.9	140	156	113.6	99,049	112,327	124.6
Moscow-Belt		4,609			200			11,061	
Lenin Railway (formerly Moscow-Kazan)	72,247	77,732	107.6	137	154	112.4	118,474	143,945	121.5
Riazan-Ural Railway	24,926	29,379	117.9	122	140	114.8	36,455	49,423	135.6
South Western Railway	52,350	61,043	116.6	129	152	117.8	81,458	111,327	136.7
Stalin Railway (formerly Yekaterinin)	52,187	59,144	113.3	136	159	116.9	85,010	112,764	132.6
Southern Railway	89,707	49,832	114.6	139	149	115.1	150,115	89,159	131.3
Donetz Railway		52,980			170			107,906	
South Eastern Railway	60,762	65,421	107.7	126	147	116.7	91,622	115,530	126.1
Northern Caucasus Railway	45,204	49,809	110.2	133	150	112.8	72,094	89,736	124.5
Transcaucasian Railway	30,007	31,106	103.7	159	186	117.0	57,454	69,450	120.9
Kaganovich Railway (formerly Perm)	65,390	49.993	119.4	134	152	113.4	105,203	90,969	125.4
Southern Ural Railway		28,109			162			40,957	
Omsk Railway	39,214	34,650	—	142	156	109.9	66,639	64,864	—
Tomsk Railway	36,715	41,382	—	139	156	112.2	61,400	77,361	—
West Siberian Railway	—	26,363	—	—	187	—	—	44.461	—
Molotov Railway (formerly Transbaikal)	32,792	28,459	—	169	239	141.4	66,458	81.483	—
Ussuri	25,310	27,587	109.0	185	260	140.5	56,167	86,073	153.2
Kuibyshev Railway (formerly Samara-Zlatoust)	39,059	34,283	—	135	148	109.6	63,316	60,830	—
Orenburg Railway	—	24,194	—	—	193	—	—	28,035	—
Central Asia Railway	35,327	34.819	—	166	185	111.4	70,464	77,316	—
Turkestan-Siberian Railway	15,346	18,399	119.9	160	183	114.4	29,625	40,463	136.6

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[1] **Exclusive of apprentices, non-skilled labor, etc.**

Note: The totals for all roads in the above Table are not strictly comparable with those given in Table 22, owing to different methods of calculation.

NOTES TO TABLES 1-23

LABOR

1. Data for 1935 and as of January 1, 1936 are preliminary.

2. In comparing data for different years, as well as those given in Summary Tables 1-5, with data for individual branches of national economy (Tables 7-10, 14, 16, 19), the following changes in classification by the various groups of national economy should be taken into account:

a) Large-Scale Industry in Tables 1, 2, 4 and 5 comprises "Census" industries (exclusive of repair plants of the People's Commissariats of Railway and Water Transport), total number of pay-roll employees in the Producers' Cooperative system, and fire protection brigades of industrial enterprises.

Large-Scale Industry in Tables 3, 7-10, 14 and 16 comprises for all the given years "Census" industries and ship repair plants of the People's Commissariat of Water Transport; from January 1, 1935 repair shops of the People's Commissariat of Railway Transport are also included. Pay-roll employees in the Producers' Cooperative system from 1932, and fire protection brigades of industrial enterprises in 1934 and 1935 are not included in these Tables.

b) Building Construction. Data for building construction in Tables 1 and 2 comprise fire protection brigades at building sites and personnel engaged in small-scale building construction carried on by the different branches of service of the People's Commissariat of Railway Transport.

In Tables 3 and 20 data on building construction for 1934 and 1935 are exclusive of the aforementioned groups of workers.

c) Communications System. Data for 1928 are exclusive of rural mail-carriers; data for subsequent years include same.

d) Trade and Public Utilities. For some branches of national economy (including Transport other than Railways and Water Transport) data for 1933 and subsequent years are not strictly comparable with data for preceding years, owing to changes in the number of enterprises covered during the period indicated. These changes are due to more detailed classifications by the different enterprises, beginning with 1933, based on a special census of wage-earners and salaried employees taken on April 1, 1934.

e) Forestry. Figures for 1928-1930 are exclusive of lumbermen using own horses; data for subsequent years include this group of workers.

f) Total National Economy, Tables 1 and 3. Data for 1934 on total national economy, as well as individual branches of national economy (Railway Transport, Agriculture, State and Government Administrative, Economic and other Institutions or Organizations) differ somewhat in Table 1 from corresponding totals in Table 3, owing to the inclusion in Table 1 of "data undistributed by regions".

3. **Railway Transport.** Data are inclusive of repair plants and shops of the People's Commissariat of Railway Transport, personnel engaged in general track repair work and road renovating, and protection of railroads.

4. **Water Transport.** Data include ship repair plants and wharves of the People's Commissariat of Water Transport.

5. **State and Government Administrative, Economic and Other Institutions or Organizations** are inclusive of government and supreme administrative organs, state administrative institutions or organizations, judicial authorities; public organizations, theatres, designing and planning organizations; surveying and prospecting organizations; publishing houses and various other similar institutions.

6. **Pay-Roll Disbursements:**

a) The number of wage-earners and salaried employees for branches of national economy with widespread part-time work is exclusive of part-time employees (persons

not listed on pay-roll of establishments reporting). In computing the average wage or salary per worker in these enterprises part-time employees are not accounted for.

b) Total Annual Pay-Roll Disbursements for all national economy include sums paid out by enterprises or institutions for work not directly concerned with the main activities of the establishments reporting, as well as sums paid to part-time employees (persons not listed on the pay-roll and working outside the establishment reporting).

These sums (not classified by branches of national economy or occupation) amounted to 180.1 millions of rubles in 1933; 1,437.5 millions of rubles in 1934; 1,515.3 millions of rubles in 1935. A considerable increase in these sums for 1934 and 1935 is due to more detailed and exact methods of registration and computation.

c) Annual Pay-Roll Disbursements. In 1932 annual pay-roll disbursements include sums paid to part time employees holding positions in other branches of national economy, as well as sums paid to persons working outside the establishment reporting (persons not listed on pay-roll). Data on Education include such sums in the amount of 600 millions of rubles; Health Protection, 11.4 millions of rubles; Banking and Credit System, 4.6 millions of rubles.

Average wages and salaries for the respective branches of national economy are computed exclusive of these additional sums.

From 1933 sums paid to part-time employees are included in total pay-roll disbursements for respective branches of national economy. But sums paid out to persons working outside the establishments reporting are included in the total pay-roll disbursements for all national economy only, and are not classified by branches of national economy or occupation.

7. **Private Sector and Concessions:**

a) In Table 2 data for 1935 on private sector and concessions in large-scale industry are exclusive of petroleum concessions on Sakhalin Island. In 1934 the average number of wage-earners and salaried employees on Sakhalin Island amounted to 2.3 thousands.

b) Data for 1935 on Agriculture, Forestry and Fishing include fishing concessions.

c) Data for 1925-26 and 1927-28 on private sector include hiring of shepherds and herdsmen by village organizations and homestead groups.

Data on the number of wage-earners in large-scale industry as given in Section II, on Industry, differ from analogous data in Section V, on Labor, in the following respects:

1. The Industry Section includes Producers' and Crafts Cooperatives, which are not taken into account in statistics on labor.

2. Data appearing in the Labor Section comprise industrial enterprises throughout all branches of industry which conform to the general census of large-scale industry; i. e., enterprises employing 16 or more workers and equipped with mechanical motive power, or 30 workers if not so equipped.

Data under Industry include, in addition to these, also enterprises in various branches of industry for which specialized censuses have been adopted; namely:

a) All electric generating stations with a capacity exceeding 15 kw.

b) All brick making plants equipped with continuous furnaces.

c) All glass making enterprises equipped with tank furnaces.

d) All typographical and printing establishments employing more than 15 workers, whether or not equipped with mechanical motive power.

e) All leather plants equipped with more than 10 tanning vats or 3 tanning drums.

f) All flour and grain mills equipped with 5 or more milling units.

g) All enterprises engaged in the production of wines and non-alcoholic beverages, and the beer and yeast industry.

3. The Labor Section includes data relating to independent establishments of the manufacturing industry (of plants and factories) functioning as separate and distinct units; whereas the Industry Section comprises, in addition to such independent industrial enterprises, also auxiliary and branch establishments of an industrial character connected with (attached to) agriculture, building construction, transport and other enterprises and organizations. The latter do not appear in the statistics on labor as separate and distinct units, but are incorporated in the general figures for labor within the given branch of national economy referred to (agriculture, building construction, transport, etc.).

For example: Repair shops for agricultural implements attached to State Farms or Machine-Tractor Stations are not given as separate, systematic and planned statistical units, but are incorporated in the general data on labor for State Farms or Machine-Tractor Stations as a whole; whereas under industry statistics such establishments of State Farms or Machine-Tractor Stations are listed as separate enterprises and are thus indicated in the totals for industry.

4. In the Labor Section large-scale industry is exclusive of the lumber industry and fisheries.

VI. POPULATION AND PUBLIC HEALTH

1. POPULATION

Table 1

Changes in Distribution of Population of the U. S. S. R. [1]

(In thousands)

Source of Information and Enumeration Date	Year	Total population	Urban population	Rural population
A	B	1	2	3
General census of February 9	1897	106,432.3	15,825.6 [2]	90,606.7
Enumeration as at January 1	1914	139,312.7	24,686.6 [2]	114,626.1
Enumeration as at January 1	1918	142,579.9	—	—
General census of December 17				
a) Actual population within census districts	1926	147,027.9	26,316.4 (25,321.5) [3]	120,711.5 (121,706.4)
b) Permanent population	1926		25,783.4 (24,888.1) [3]	121,244.5 (122,139.8)
Enumeration as at January 1	1929	154,287.7	27,630.2	126,657.5
Enumeration as at January 1	1933	165,748.4	39,739.2 (40,308.0)	126,009.2 (125,445.4)

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[1] The next general Census of the population of the U.S.S.R. is scheduled to take place in January 1937.

[2] Urban population for 1897 and 1914 stated according to register of cities adopted after the Revolution and exclusive of cities in Khiva and Bokhara. Distribution of urban population by cities as at Jan. 1, 1929 stated according to the urban census of 1931. Urban population as at Jan. 1, 1933 listed in two ways: 1. According to register of cities and townships adopted in 1931; 2. According to the same register and inclusive of communities which acquired the status of towns during the period beginning with the urban census of 1931 and ending January 1, 1933. The latter figures are given in parentheses.

[3] Total figures for the urban population of the U.S.S.R. for 1926 are in parentheses. These figures were obtained by adding the totals supplied by the respective Constituent Republics.

With the exception of the Transcaucasian S.F.S.R., these figures do not cover population points which acquired town status after the census was taken, although they had previously been so included in the official register. Figures for the Ukrainian S.S.R. do not include the population of towns which lost urban status during the period of 1926-1931, but are inclusive of the population of towns inscribed as such in the official register within the same period. Corresponding changes in rural population are in parentheses in column 3.

Table 2

Growth of Population of Large Cities

(With over 100,000 inhabitants in 1935)

Cities	Number of inhabitants (in thousands)		
	As at Dec. 17, 1926	As at April 1, 1931	As at Jan. 1, 1935
A	1	2	3
1. Moscow	2,025.9	2,781.3	3,641.5
2. Leningrad	1,614.0	2,188.0	2,739.8
3. Alma-Ata	44.0	108.5	197.4
4. Archangel	75.2	128.9	225.8
5. Astrakhan	180.3	199.0	249.7
6. Baku	439.1	575.2	670.0
7. Barnaul	70.9	83.6	121.0
8. Cheliabinsk	56.9	116.9	263.3
9. Dnieprodzerzhinsk	33.7	89.1	146.4
10. Dniepropetrovsk	224.5	322.8	384.9
11. Erevan	60.3	94.0	132.4
12. Gomel	81.0	107.5	127.1
13. Gorky (formerly Nizhni-Novgorod)	217.1	350.3	512.6
14. Grozny	93.8	148.9	165.3
15. Irkutsk	89.8	130.7	184.2
16. Ivanovo	108.7	162.3	215.4
17. Izhevsk	62.3	98.2	125.5
18. Kalinin	105.6	130.4	158.2
19. Karaganda	—	—	118.9
20. Kazan	169.1	202.0	271.8
21. Kemerovo	21.5	48.1	124.0
22. Khabarovsk	44.2	69.1	138.0
23. Kharkov	398.7	521.5	625.4
24. Kiev	482.8	539.5	625.0
25. Kirov	52.2	73.5	102.3
26. Krasnodar (formerly Yekaterinodar)	156.3	170.1	185.7
27. Krasnoyarsk	68.7	91.9	138.2
28. Kuibyshev (formerly Samara)	167.1	220.4	271.0
29. Magnitogorsk	—	64.1	210.6
30. Makeyevka (formerly Dmitrievsk)	51.3	81.0	114.0
31. Mariupol	62.3	105.9	174.3
32. Minsk	121.0	153.5	186.5
33. Murmansk	6.7	29.2	103.8

Table 2 (Continued)

Cities	Number of inhabitants (in thousands)		
	As at Dec. 17, 1926	As at April 1, 1931	As at Jan. 1, 1935
A	1	2	3
34. Nikolayev	99.7	122.7	141.2
35. Nizhni-Tagil	38.4	59.5	150.0
36. Novosibirsk (formerly Novo-Nikolayevsk)	114.0	180.1	310.0
37. Odessa	405.8	475.5	509.0
38. Omsk	152.4	191.5	241.5
39. Ordjonikidze (formerly Vladikavkaz)	72.8	89.9	112.0
40. Orenburg	120.9	129.1	140.6
41. Pensa	89.0	104.9	120.6
42. Perm	79.7	122.7	167.9
43. Poltava	85.7	92.9	103.0
44. Prokopievsk	10.7	44.6	121.7
45. Rostov-on-Don	299.7	425.1	479.4
46. Samarkand	100.8	135.7	154.6 1)
47. Saratov	209.1	277.5	340.0
48. Semipalatinsk	54.2	80.5	136.4
49. Simferopol	85.1	96.9	103.1
50. Smolensk	71.0	86.5	128.0
51. Stalingrad (formerly Tzaritzyn)	144.0	294.5	390.0
52. Stalino (formerly Yusovo)	104.3	194.1	272.6
53. Stalinsk (formerly Kuznetsk)	3.9	52.0	220.0
54. Sverdlovsk (formerly Yekaterinburg)	133.8	223.3	450.0
55. Taganrog	84.4	122.7	153.6
56. Tambov	76.3	83.9	103.0
57. Tashkent	314.1	421.8	532.0 1)
58. Tbilissi (Tiflis)	275.8	347.9	426.3
59. Tomsk	83.7	100.7	141.0
60. Tula	147.4	188.9	201.3
61. Ufa	96.1	124.0	194.8
62. Vitebsk	87.7	108.2	130.5
63. Vladivostok	101.2	128.6	235.0
64. Voronezh	113.7	165.1	240.0
65. Voroshilovgrad (formerly Lugansk)	69.4	102.1	124.4
66. Yaroslavl	109.9	155.5	209.4
67. Zaporozhie	67.7	163.0	204.4
68. Zlatoust	47.2	80.6	105.5

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1) Data as at Jan. 1, 1934.

Table 3

Increase in Urban Population by Migration: For the Period 1928-1935

(In thousands)

Year	Immigration	Emigration	Increase due to inflow of inhabitants
A	1	2	3
1928	6,477	5.415	1,062
1929	6.958	5,566	1,392
1930	9,534	6,901	2,633
1931	10,810	6,710	4,100
1932	10,605	7.886	2,719
1933	7,416	6.644	772
1934	11,856	9.404	2,452
1935[1]	13.526	10,999	2,527

2. HEALTH PROTECTION

Table 1

Physical Development of Young Workers

(According to measurements of workers called up for military service)

	Average height (in cm)		Average weight (in kg)		Average chest diameter (in cm)	
	1927	1933	1927	1933	1927	1933
A	1	2	3	4	5	6
City of Moscow (Russians)	167.33	167.98	61.28	62.64	87.84	89.02
City of Leningrad (Russians)	167.01	167.99	61.19	63.14	87.67	90.39
Moscow Industrial Region (Russians)	166.42	167.38	59.83	61.20	86.24	88.68
Ivanovo Industrial Region (Russians)	165.92[2]	167.65	58.80[2]	60.91	86.28[2]	87.83
Gorky Territory (Russians)	166.10[3]	166.84	59.86[3]	60.87	86.60[3]	87.97
Ukrainian S.S.R. (Ukrainians)	169.08	169.19	62.80	65.05	88.29	89.90

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[1] Preliminary data.

[2] 1925.

[3] 1926.

Table 2

Health Protection and Medical Aid in the U.S.S.R.

Year	Number of medical aid stations at enterprises	Medical aid rendered in hospitals [1]						Crèches: Number of places in same (in thousands)			Number of doctors (in thousands)	Allocations for health protection (in millions of rubles)
		Number of beds (in thousands)				Number of beds in general hospitals and maternity homes per 1,000 inhabitants [2]		Total	Including:			
		Total	Including: Beds in general hospitals and maternity homes serving		Including: Beds in psychiatric hospitals							
			Cities	Rural districts		Cities	Rural districts		Cities	Rural districts		
A	1	2	3	4	5	6	7	8	9	10	11	12
As at January												
1914	0	175.6	89.2	49.4	37.0	3.61	0.43	11.15	0.55	10.6	19.8	128.5
1929	1,942	246.1	143.6	60.0	29.1	4.47	0.77	257.0	52.4	204.6	63.3	660.8
1933	5,430	410.2	230.0	107.0	37.5	5.38	1.23	4,544.3	262.7	4,270.5	77.9	2,105.8
1935	7,587	477.6[3]	261.1	122.5	43.2	5.69	1.42	5,143.6	296.9	4,829.2	85.9	3,222.6
1935 in per cent of 1929	390.7	194.1	181 8	204.2	148.5	127.3	184.5	2,001.5	566.4	2,360.3	135.7	487.7

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[1] Exclusive of auxiliary beds and beds in health resorts and sanatoria.

[2] Including city medical aid extended to rural population.

[3] In addition to this, 2,922 beds in special maternity homes (for miscarriage and abortion), 1,390 beds in leper hospitals; and 5,324 reserve beds in dispensaries (including prophylactic institutions for children).

Table 3

Medical Aid Rendered in Hospitals: By Republics

(As at January)

Republics	Total number of beds (in thousands)				Including beds in general hospitals and maternity homes serving:							
					Cities				Rural districts			
	1914	1929	1933	1935	1914	1929	1933	1935	1914	1929	1933	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
U. S. S. R.	**175.6**	**246.1**	**410.2**	**477.6**	**89.2**	**143.6**	**230.0**	**261.1**	**49.4**	**60.0**	**107.0**	**122.5**
Including:												
R.S.F.S.R.	130.7	186.6	304.7	348.5	64.8	108.7	169.5	186.0	38.7	44.9	78.1	88.9
Ukrainian S.S.R.	36.8	37.5	67.3	83.3	19.0	19.8	36.3	45.8	8.8	11.6	20.3	23.8
White Russian S.S.R.	3.8	6.6	10.5	12.2	2.4	3.7	6.1	8.1	0.9	1.6	2.6	2.3[1]
Transcaucasian S.F.S.R.	3.1	9.3	14.7	16.5	2.1	7.3	10.5	11.6	0.7	0.9	2.6	2.8
Uzbek S.S.R.	0.8	4.6	9.4	12.1	0.6	3.3	5.4	7.0	0.2	0.5	2.4	2.8
Turkmenian S.S.R.	0.3	1.1	2.1	2.6	0.2	0.6	1.2	1.6	0.1	0.3	0.5	0.6
Tadjik S.S.R.	0.1	0.4	1.5	2.4	0.1	0.2	1.0	1.0[1]	0.0	0.2	0.5	1.3

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[1] The decrease in number of hospital beds in rural districts of the White Russian S.S.R. and the stabilizing of the number of beds in city hospitals in the Tadjik S.S.R. is due to a new system of distribution between cities and rural districts.

Table 4

Crèches in the U. S. S. R.: By Republics

(As at January)

Republics	Total number of places in crèches (in thousands)				Including places in crèches serving.							
					Cities				Rural districts			
	1914	1929	1933	1935	1914	1929	1933	1935	1914	1929	1933	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
U. S S. R	11 15	257.0	4.544 3	5,143 6	0 55	52 4	262 7	296 9	10 6	204.6	4,270 5	4,829.2
Including:												
R.S.F.S.R.	9 85	187.8	3,036.7	3,378 0	0 55	41.6	187.7	206.5	9.3	146.2	2,840.6	3,157.5
Ukrainian S.S.R.	1.3	52.4	1,199.7	1,339.3	—	7 5	51.9	55.0	1.3	44.9	1,146.1	1,282.1
White Russian S.S.R.	—	14.2	107.2	171.4	—	1.4	5.5	8.8	—	12.8	101.5	162.4
Transcaucasian S F.S.R.	—	1.2	67.9	65.7	—	0.6	9.7	10.7	—	0.6	57.8	54.5
Uzbek S.S.R.	—	0.9	76.9	121.6	—	0.9	5.2	12.3	—	—	71.4	108.9
Turkmenian S S.R.	—	0.5	38.4	40.0	—	0.4	1.6	2.4	—	0.1	36.7	37.4
Tadjik S.S.R.	—	0.0	17.5	27.6	—	0.0	1.1	1.2	—	—	16.4	26.4

Table 5

Sanatoria, Health Resorts and Rest Homes

		1928	1932	1934
A	B	1	2	3
Number of patients treated at the expense of the Social Insurance System (in thousands)	In sanatoria and health resorts	74.2	171.2	180.8
	In rest homes	437.2	914.0	1,160.0
Number of workers and persons of similar status per 100 patients treated at the expense of the Social Insurance System .	In sanatoria and health resorts	77.5 1)	88.1	91.6
	In rest homes	72.0 1)	83.6	91.3

Table 6

Physical Culture in the U.S.S.R.

(Data of the All-Union Council of Physical Culture)

	1929	1932	1933	1934	1935
A	1	2	3	4	5
Number of adults actively engaged in physical culture (in thousands)	759	4,700	6,203	8,200	8,706
Of which: Women	—	1,518	1,700	1,800	2,035
Number of persons who have received the "Ready for Labor and Defense" badge 2) First Rank badge (in thousands)	—	466	1,300	2,580	3,700
Of which: Women	—	—	50	170	368
Number of persons who have received the "Ready for Labor and Defense" badge Second Rank badge	—	—	—	144	4,955
Of which: Women	—	—	—	6	298
Number of children who have received the "Ready for Labor and Defense" badge . .	—	—	—	—	187,402
Allocations for physical culture—total (in thousands of rubles)	16,532	60,000	100,000	128,847	185,000
Including:					
Capital investments	2,000	19,325	25,000	25,000	36,336

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1) Data for 1929.

2) The "Ready for Labor and Defense" badge is granted to those who have successfully passed special tests in marksmanship, rowing, swimming, skiing, jumping and the like.

VII. TRADE AND SUPPLY

(Internal Trade)

Table 1

Retail Turnover of State and Cooperative Trade, Including the Public Catering System[1]

Indices	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
Turnover								
(In millions of rubles)								
Retail trade	11,750.0	14,593.7	17,582.5	24,725.2	35,504.3	43.402.6	54,772.0	73,722.7
Public catering system (public food services)	350.0	550.0	1,290.0	2,740.0	4,852.3	6,386.6	7,042.7	6,920.9
Total	12,100.0	15,143.7	18,872.5	27,465.2	40,356.6	49,789.2	61,814.7	80,643.6
In per cent of 1928								
Retail trade	100.0	124.2	149.6	210.4	302.2	369.4	466.1	627.4
Public catering system	100.0	157.1	368.6	782.8	1,386.4	1,824.7	2,012.2	1,977.4
Total	100.0	125.1	156.0	227.0	333.5	411.7	510.9	666.5
Per cent of total								
Retail trade	97.1	96.4	93.2	90.0	88.0	87.2	88.6	91.4
Public catering system	2.9	3.6	6.8	10.0	12.0	12.8	11.4	8.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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[1] **Excluding the retail market trade of** Collective Farms, amounting to 14,500 millions of rubles in 1935.

Retail Trade Turn

(Excluding the Public

Year	Absolute figures (millions of rubles)					
	State trade	Cooperative trade		Total State and cooperative trade	Private trade	Total State, cooperative and private trade
		Total	Including Consumers' Cooperatives			
A	1	2	3	4	5	6
Total Turnover						
1923-24	846.0	1,437.0	1.195.3	2,283.0	3,116.0	5,399.0
1924-25	1,189.8	3,283.6	2,370.2	4,473 4	3.300.0	7,773.4
1925-26	1,544.9	5,224.1	4,107.8	6,769.0	4,963.1	11,732.1
1926-27	1,816.6	6,837.6	5,434.0	8,654.2	5,063 5	13,717.7
1928	2,408.8	9,341.2	7,536.6	11,750 0	3,406.6	15,156.6
1929	3,197.7	11,396.0	9,910.0	14,593.7	2,273.4	16,867.1
1930	4,282.5	13,300.0	12,236.0	17,582.5	1,043.0	18,625.5
1931	6,547.2	18,178.0	17,283.3	24,725.2	—	24,725.2
1932	12,995 4	22,508.9	20,974.4	35,504 3	—	35,504.3
1933	22,162.9	21,239.7	19,600.7	43,402.6	—	43,402.6
1934	32,311.4	22,460.6	20,824.6	54,772.0	—	54,772.0
1935	45,421.8	28,300.9	26,381.5	73,722.7	—	73,722.7
For Cities						
1923-24	766.5	949.9	786.2	1,716.4	2,694.6	4,411.0
1924-25	1,106 5	1,954.0	1,457.7	3,060.5	2,746.2	5,806 7
1925-26	1,396.6	3,294.4	2,459.4	4,691.0	4,009 4	8,700.4
1926-27	1,524.5	4,075.3	3,246.8	5,599.8	4,015.1	9,614.9
1928	2,020.7	5,772.5	4,629.1	7,793.2	2,701.5	10,494.7
1929	2,533.1	7,144.2	5,984 0	9,677.3	1,821.8	11.499.1
1930	3,093.7	8,046.3	7.220.0	11,140.0	856.3	11,996.3
1931	4,996.8	11,450.2	10,706.3	16,447.0	—	16,447.0
1932	8,913.0	14,474.8	13,288.8	23,387.8	—	23,387.8
1933	16,417.8	13,030.4	11,676.7	29,448.2	—	29,448.2
1934	26,093.9	13,254.9	11,882.2	39,348.8	—	39,348.8
1935	38,176.7	14,063.5	12,503.1	52,240.2	—	52,240.2
For Rural Districts						
1923-24	79.5	487.1	409.1	566.6	421.4	988.0
1924-25	83.3	1,329 6	912.5	1,412.9	553.8	1,966.7
1925-26	148.3	1,929.7	1,648.4	2,078.0	953.7	3,031.7
1926-27	292.1	2,762.3	2,187.2	3,054.4	1,048.4	4,102.8
1928	388.1	3,568.7	2,907.5	3,956.8	705.1	4,661.9
1929	664.6	4,251.8	3,926.0	4,916.4	451.6	5,368.0
1930	1,188.8	5,253.7	5,016.0	6,442.5	186.7	6,629.2
1931	1,550.4	6,727.8	6,577.0	8,278.2	—	8,278.2
1932	4,082.4	8,034 1	7,685.6	12,116 5	—	12,116.5
1933	5,745.1	8,209.3	7,924 0	13,954.4	—	13,954.4
1934	6,217.5	9,205.7	8,942.4	15,423.2	—	15,423.2
1935	7,245.1	14,237.4	13,878.4	21,482.5	—	21,482.5

Table 2

over in the U.S.S.R.
Catering System)

Per cent of 1923-24						Per cent of total					
State trade	Cooperative trade		Total State and cooperative trade	Private trade	Total State, cooperative and private trade	State trade	Cooperative trade		Total State and cooperative trade	Private trade	Total State, cooperative and private trade
	Total	Including Consumers' Cooperatives					Total	Including Consumers' Cooperatives			
7	8	9	10	11	12	13	14	15	16	17	18
100.0	100.0	100.0	100.0	100.0	100.0	15.7	26.6	22.0	42.3	57.7	100.0
140.6	228 3	198.3	195.9	105.9	144.0	15.3	42.2	31.2	57.5	42.5	100.0
182.6	363.3	343.6	296.5	159.3	217.2	13 2	44.5	35.0	57.7	42.3	100.0
214.7	475.5	454.6	379.1	162.5	254.1	13.3	49.8	39.6	63.1	36.9	100.0
284.7	650.0	621.3	514.7	109.3	280.7	15.9	61.6	49.7	77.5	22.5	100.0
378.0	793.0	829.0	639.2	73.0	312.4	18.9	67.6	58.8	86.5	13.5	100.0
506 2	925.5	1,023.6	770.1	35.5	345 0	23 0	71.4	65.7	94.4	5.6	100.0
773.9	1,264.1	1,445.9	1,083.0	—	457.9	26.7	73.3	69.9	100.0	—	100.0
1,536.1	1,566.4	1,754.7	1,555.2	—	657 6	36.6	63 4	59.1	100.0	—	100.0
2,619.7	1,478.0	1,639.8	1,901.1	—	803.9	51.1	48.9	45.2	100.0	—	100.0
3,819.3	1,563.0	1,742.2	2,399.1	—	1,014.5	59.0	41.0	38.0	100.0	—	100.0
5,369.0	1,969.4	2,207.1	3,229.2	—	1,365.5	61.6	38.4	35.8	100.0	—	100.0
100.0	100.0	100.0	100.0	100.0	100.0	17.4	21.5	17.8	38.9	61.1	100.0
144.4	205.7	185.4	178.3	101.9	131.7	19.1	33.6	25.1	52.7	47.3	100.0
182.2	346.8	312.8	279.3	148.7	197.2	16.1	37.8	28.3	53.9	46.1	100.0
198.9	429.0	413.0	326.2	149.0	218.0	15.9	42.3	33.8	58.2	41.8	100.0
263.6	607.7	588.7	454.0	100.3	237.9	19.3	55.0	44.1	74.3	25.7	100.0
330.5	752.1	761.1	563.8	87.6	260.7	22.0	62.2	52.0	84.2	15.8	100.0
403.6	846 8	918.3	649.0	31.8	272.0	25.8	67.1	60.2	92.9	7.1	100.0
651.9	1,205.4	1,361.8	958.2	—	372.8	30.4	69.6	65.1	100.0	—	100.0
1,162.8	1,523.8	1,690.2	1,362.2	—	530.2	38.1	61.9	56.8	100.0	—	100.0
2,141.9	1,371.8	1,485.3	1,715.6	—	667.6	55.8	44.2	39 7	100.0	—	100.0
3,404.3	1,335.4	1,511.3	2,292.5	—	892.2	66.3	33 7	30.2	100.0	—	100.0
4,980.7	1,480.5	1,590.3	3,043.6	—	1,184.3	73.1	26.9	23.9	100.0	—	100.0
100.0	100 0	100.0	100.0	100.0	100.0	8.0	49.3	41.4	57.3	42.7	100.0
104.8	273.0	223.0	249.4	131.4	199.1	4.2	67.6	47.6	71.8	28.2	100.0
186 5	396.2	402.9	366.7	226.3	306.9	4.9	63.7	54.4	68.6	31.4	100.0
367.4	567.1	534.6	539.1	248.8	415.3	7.1	67.3	53.3	74.4	25.6	100.0
488.2	732.6	710.7	698.3	167.3	471.9	8.3	76.6	62.4	84.9	15.1	100.0
836 0	872.9	959.6	867.7	107.2	543.3	12.4	79.2	73.1	91.6	8.4	100.0
1,495.3	1,078.6	1,226.1	1,137.0	44.3	671.0	17.9	79.3	75.7	97.2	2.8	100.0
1,950.0	1,381.2	1,607.7	1,461.0	—	837.9	18.6	81.4	79.4	100.0	—	100.0
5,135.1	1,649.4	1,878.7	2,138.5	—	1,226.4	33.7	66.3	63.4	100.0	—	100.0
7,226.5	1,685.3	1,936.9	2,462.8	—	1,412.8	41.2	58.8	56.8	100.0	—	100.0
7,820.8	1,883.9	2,185.9	2,722.0	—	1,561.0	40.3	59.7	58.0	100.0	—	100.0
9,113.3	2,922.9	3,392.4	3,791.5	—	2,174.3	33.7	66.3	64.6	100.0	—	100.0

Table 8

Turnover in Retail Trade of Foodstuffs and Other Commodities

(Excluding the Public Catering System)

Indices	Absolute figures (millions of rubles)									Per cent of total								
	1928			1932			1935			1928			1932			1935		
	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
State Trade																		
Foodstuffs	482.9	273.6	756.5	3,493.0	2,548.2	6,041.2	1)	1)	1)	23.9	70.5	31.1	39.2	62.5	46.5	1)	1)	1)
Other commodities	1,537.8	114.5	1,652.3	5,420.0	1,534.2	6,954.2	1)	1)	1)	76.1	29.5	68.9	60.8	37.5	53.5	1)	1)	1)
Total	**2,020.7**	**388.1**	**2,408.8**	**8,913.0**	**4,082.4**	**12,995.4**	**38,176.7** 2)	**7,245.1** 2)	**45,421.8** 2)	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Cooperative Trade																		
Foodstuffs	3,198.0	1,509.6	4,707.6	8,244.7	3,081.7	11,326.4	1)	1)	1)	55.4	42.3	50.4	57.0	38.4	50.3	1)	1)	1)
Other commodities	2,574.5	2,059.1	4,633.6	6,230.1	4,952.4	11,182.5	1)	1)	1)	44.6	57.7	49.6	43.0	61.6	49.7	1)	1)	1)
Total	**5,772.5**	**3,568.7**	**9,341.2**	**14,474.8**	**8,034.1**	**22,508.9**	**14,063.5**	**14,237.4**	**28,300.9**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
All State and Cooperative Trade																		
Foodstuffs	3,680.9	1,783.2	5,464.1	11,737.7	5,629.9	17,367.6	34,425.5	12,053.3	46,478.8	47.4	44.9	46.5	50.2	46.5	48.9	65.9	56.1	63.0
Other commodities	4,112.3	2,173.6	6,285.9	11,650.1	6,486.6	18,136.7	17,814.7	9,429.2	27.243.9	52.6	55.1	53.5	49.8	53.5	51.1	34.1	43.9	37.0
Total	**7,793.2**	**3,956.8**	**11.750.0**	**23,387.8**	**12,116.5**	**35,504.3**	**52,240.2**	**21,482.5**	**73,722.7**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

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[1] No data.

[2] Including Workers' Supply Departments.

Table. 4

Retail Trade Turnover in the U.S.S.R., as of 1931-1935; By Trade Organizations

Trade Organizations	Trade turnover (millions of rubles)											
	1931			1932			1934			1935		
	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total
A	1	2	3	4	5	6	7	8	9	10	11	12
1. State trade organizations . .	4,996.8	1,550.4	6,547.2	8,913 0	4,082.4	12,995.4	19,019.5	4,734.8	23,754.3	26,993.1	4,863.6	31,856.7
Including: The People's Commissariat for Internal Trade	3,038.0	211 3	3,249.3	5,452.2	1.416.1	6,868.3	13,144 5	1,475.0	14,619.5	19,821.5	1,808.5	21,630.0
2. Workers' Supply Departments	—	—	—	—	—	--	7,074.4	1,482.7	8,557.1	11,183.6	2,381.5	13.565.1
3. Cooperative trade organizations	11,450.2	6,727.8	18,178.0	14,474.8	8,034.1	22,508.9	13,254.9	9,205 7	22,460.6	14,063.5	14,237.4	28,300.9
Including: Consumers' Cooperatives	10,706.3	6,577.0	17,283.3	13,288.8	7,685.6	20,974.4	11,882.2	8,942.4	20,824.6	12,503.1	13,878.4	26,381.5
Total	16,447 0	8,278.2	24,725.2	23,387.8	12,116.5	35,504.8	39,348 8	15,423.2	54,772.0	52,240.2	21,482.5	73,722.7

Table 4 (Continued)

Trade Organizations	Share of each organization (per cent of total)											
	1931			1932			1934			1935		
	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total	Cities	Rural districts	Total
A	13	14	15	16	17	18	19	20	21	22	23	24
1. State trade organizations	30.4	18.7	26.5	38.1	33.7	36.6	48.3	30.7	43.4	51.7	22.6	43.2
Including: The People's Commissariat for Internal Trade	18.4	2.5	13.1	23.3	11.7	19.4	33.4	9.6	26.7	38.0	8.4	29.3
2. Workers' Supply Departments	—	—	—	—	—	—	18.0	9.6	15.6	21.4	11.1	18.4
3. Cooperative trade organizations	69.6	81.3	73.5	61.9	66.3	63.4	33.7	59.7	41.0	26.9	66.3	38.4
Including: Consumers' Cooperatives	65.1	79.5	69.9	56.8	63.4	59.0	30.2	58.0	38.0	24.0	64.6	35.8
Total	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

Table 5

Network of Retail Enterprises of State and Cooperative Trade Organizati

Trade Organizations	Number of enterprises					Per cent of 1930				Per cent of total				
	As at Jan. 1, 1930	As at Jan. 1, 1932	As at Jan. 1, 1933	As at Jan. 1, 1935	As at Oct. 1, 1935	As at Jan. 1, 1932	As at Jan. 1, 1933	As at Jan. 1, 1935	As at Oct. 1, 1935	As at Jan. 1, 1930	As at Jan. 1, 1932	As at Jan 1, 1933	As at Jan. 1, 1935	As at Oct. 1, 1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Total Network														
State trade organizations	23,612	39,547	72,964	108,626	140,120	167.5	309.0	460.0	593.4	14.5	17.6	25.7	38.0	47.5
Cooperative trade organizations . . .	139,409	185,356	211,394	177,327	155,153	133.0	151.6	127.2	111.3	85.5	82.4	74.3	62.0	52.5
Including: Consumers' Cooperatives	119,339	167,003	190,478	158,167	135,303	139.9	159.6	132.5	113.4	73.2	74.3	67.0	55.3	45.8
Total	**163,021**	**224,903**	**284,358**	**285,953**	**295.273**	**137.9**	**174.4**	**175.4**	**181.1**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Cities														
State trade organizations	13,833	23,167	42,765	64,412	98,566	167.5	309.2	465.6	712.5	19.5	25.6	36.8	56.6	81.4
Cooperative trade organizations . . .	57,255	67,299	73,417	49,483	22,538	117.5	128.2	86.4	39.4	80.5	74.4	63.2	43.4	18.6
Including: Consumers' Cooperatives	39,922	53,452	57,510	35,096	7,145	133.9	144.1	87.9	17.9	56.2	59.1	49.5	30.8	5.9
Total	**71,088**	**90,466**	**116,182**	**113,895**	**121.104**	**127.3**	**163.4**	**160.2**	**170.4**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Rural Districts														
State trade organizations	9,779	16,380	30,199	44.214	41,554	167.5	308.8	452.1	424.9	10.6	12.2	18.0	25.7	23.9
Cooperative trade organizations . . .	82,154	118,057	137,977	127,844	132,615	143.7	168.0	155.6	161.4	89.4	87.8	82.0	74.3	76.1
Including: Consumers' Cooperatives	79.417	113,551	132,968	123,071	128,158	143.0	167.4	155.0	161.3	86.4	84.5	79.1	71.5	73.6
Total	**91,933**	**134,437**	**168,176**	**172,058**	**174,169**	**146.2**	**182.9**	**187.2**	**189.5**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

Network of Wholesale Enterprises of Industrial

(As at January 1

Republics, Regions and Territories	People's Commissariat of Food Industry			People's Commissariat of Light Industry			People's Commissariat of Heavy Industry		
	1933	1934	1935	1933	1934	1935	1933	1934	1935
A	1	2	3	4	5	6	7	8	9
Northern Territory	13	15	18	8	7	7	1	1	2
Karelian A.S.S.R.	3	1	—	2	—	—	—	—	—
Leningrad Region	11	11	18	9	11	11	2	2	2
Western Region	7	12	13	10	9	8	3	2	2
Kalinin Region	—	—	2	—	—	2		—	—
Moscow Region	16	23	34	16	16	17	2	3	3
Ivanovo Region	17	15	12	8	10	11	3	2	2
Gorky Territory	21	15	10	9	10	6	2	2	2
Kirov Territory	—	—	6	—	—	6	—	—	—
Sverdlovsk Region	18	23	27	12	15	12	2	2	2
Cheliabinsk Region	10	16	20	6	8	8	—	—	2
Bashkir A.S.S.R.	6	5	6	3	4	4	—	—	1
Tatar A.S.S.R.	6	8	5	3	4	4	1	1	1
Kuibyshev Territory	13	25	41	16	12	10	2	2	1
Orenburg Region			3			2			2
Voronezh Region	15	12	8	10	18	12	2	2	2
Kursk Region	—		4	—		6	—		1
Saratov Territory	8	6	15	6	7	6	2	2	2
Stalingrad Territory	8	18	8	8	7	8	1	1	2
Azov-Black Sea Territory	17	19	19	13	13	10	2	2	2
Northern Caucasus Territory	5	11	13	5	7	9	—	—	1
Crimean A.S.S R.	7	5	8	5	5	5	2	2	2
Kazäkhstan A.S.S.R.	18	12	18	21	25	25	1	1	1
Kirghiz A.S.S.R.	—	—	2	—	—	8	—	—	—
West Siberian Territory	25	18	15	17	25	17	2	2	4
Omsk Region	2	2	5	1	2	5	—	—	—
East Siberian Territory	8	8	9	8	9	7	1	1	2
Krasnoyarsk Territory	—	—	3	—	—	6	—	—	—
Far Eastern Territory	12	11	15	6	7	7	1	1	2
R.S.F.S.R.	266	291	357	202	231	239	32	31	43
Ukrainian S.S.R.	27	68	99	37	42	43	9	9	8
White Russian S.S.R.	11	12	21	11	12	12	2	2	2
Transcaucasian S.F.S.R.	14	12	15	18	19	18	4	4	7
Uzbek S.S.R.	10	5	10	45	46	39	3	3	3
Turkmenian S.S.R.									
Tadjik S.S.R.									
Total for U.S.S.R.	**328**	**388**	**502**	**313**	**350**	**351**	**50**	**49**	**63**

Table 6

Commissariats and Consumers' Cooperatives

of respective year)

People's Commissariat of the Timber Industry			Committee of Products Collections Attached to the Council of People's Commissars			Total network of wholesale enterprises of Industrial Commissariats			Central Union of Consumers' Cooperative Societies ("Centrosoyuz")			Total		
1933	1934	1935	1933	1934	1935	1933	1934	1935	1933	1934	1935	1933	1934	1935
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
—	—	—	11	7	5	33	30	32	5	5	5	38	35	37
—	—	—	7	1	4	12	2	4	1	1	3	13	3	7
3	1	1	11	15	17	36	40	49	25	24	20	61	64	69
1	1	1	8	7	9	29	31	33	10	8	9	39	39	42
-	—	—	—	—	—	—	—	4	—	—	—	—	—	4
2	1	1	11	18	36	47	61	91	18	18	15	65	79	106
—	—	—	7	6	7	35	33	32	10	9	11	45	42	43
2	—	1	4	10	5	38	37	24	17	21	19	55	58	43
—	—	—	—	—	—	—	—	12	—	—	—	—	—	12
1	1	1	10	9	8	43	50	50	9	6	6	52	56	56
—	—	—	4	3	3	20	27	33	3	7	7	23	34	40
—	—	—	3	1	3	12	10	14	6	6	7	18	16	21
—	—	—	2	1	1	12	14	11	3	5	4	15	19	15
2	1	1	5	—	1	38	40	54	—	20	18	38	60	72
	—			—	—			7	—					7
—	1	1	7	—	2	34	33	25	23	21	14	57	54	39
—				—	—			11	17		8	17		19
—	—	—	1	1	2	17	16	25	11	10	8	28	26	33
2	1	1	2	2	2	21	29	21	7	7	6	28	36	27
3	1	1	5	5	2	40	40	34	15	13	14	55	53	48
—	—	—	8	3	2	18	21	25	6	6	4	24	27	29
—	—	—	4	—	2	18	12	17	4	3	2	22	15	19
1	—	—	9	6	3	50	44	47	21	21	18	71	65	65
—	—	—	—	—	—	—	—	10	10	7	9	10	7	19
—	1	1	9	5	5	53	51	42	12	15	13	65	66	55
—	—	—	—	—	—	3	4	10	1	1	1	4	5	11
1	—	—	6	5	1	24	23	19	12	13	11	36	36	30
—	—	—	—	—	—	—	—	9	—	—	—	—	—	9
—	—	—	6	5	11	25	24	35	9	8	8	34	32	43
18	9	10	140	110	131	658	672	780	255	255	240	913	927	1,020
7	3	3	9	28	28	89	150	181	52	65	64	141	215	245
1	1	1	7	6	—	32	33	36	12	13	12	44	46	48
5	2	2	14	9	16	55	46	58	15	18	18	70	64	76
2	—	—	7	7	11	67	61	63	25	31	26	92	92	89
33	**15**	**16**	**177**	**160**	**186**	**901**	**962**	**1,118**	**359**	**382**	**360**	**1,260**	**1,344**	**1,478**

Table 7

Network of Enterprises in the Public Catering System and Their Turnover

(Public Food Services)

Year	Absolute figures					Per cent of total					Per cent of 1924-25		
	State organizations	Cooperative organizations	Total State and cooperative organizations	Private organizations	Grand total	State organizations	Cooperative organizations	Total State and cooperative organizations	Private organizations	Grand total	State and cooperative organizations	Private organizations	Grand total
A	1	2	3	4	5	6	7	8	9	10	11	12	13
A. Number of Enterprises													
1924-25	2,640	5,581	8,221	15,681	23,902	11.0	23.3	34.3	65.7	100.0	100.0	100.0	100.0
1925-26	4,564	7,471	12,035	28.472	40,507	11.3	18.4	29.7	70.3	100.0	146.4	181.6	169.5
1926-27	5,250	7,052	12.302	27,780	40,082	13.1	17.6	30.7	69.3	100.0	149.6	177.2	167.7
1927-28	4,612	9,837	14,449	28,051	42,500	10.8	23.1	33.9	66.1	100.0	175.8	178.9	177.8
1928-29	5,471	12,164	17,635	16,871	34.506	15.8	35.3	51.1	48.9	100.0	214.5	107.6	144.4
1933 (as at Jan. 1)	12,428	43,419	55.847	—	55,847	22.3	77.7	100.0	—	100.0	679.3	—	233.6
1934 (as at Jan. 1)	29,920	27,280	57,200	—	57,200	52.3	47.7	100.0	—	100,0	695.8	—	239.3
1935 (as at Jan. 1)	30,062	22,797	52,859	—	52,859	56.9	43.1	100.0	—	100.0	643.0	—	221.1
B. Turnover (millions of rubles)													
1924-25	99.9	154.6	254.5	120.5	375.0	26.6	41.3	67.9	32.1	100.0	100.0	100.0	100.0
1925-26	116.6	200.2	316.8	218.8	535.6	21.8	37.3	59.1	40.9	100.0	124.5	181.6	142.8
1926-27	95.2	178.8	274.0	251.9	525.9	18.1	34.0	52.1	47.9	100.0	107.7	209.0	140.2
1927-28	116.2	288.2	404.4	257.4	661.8	17.5	43.6	61.1	38.9	100.0	158.9	213.6	176.5
1928	50.0	300.0	350.0	no data	350.0	—	—	—	—	—	137.5	—	—
1929	80.0	470.0	550.0	"	550.0	—	—	—	—	—	216.1	—	—
1930	140.0	1,150.0	1,290.0	"	1,290.0	—	—	—	—	—	506.9	—	—
1931	340.0	2,400.0	2,740.0	"	2,740.0	—	—	—	—	—	1,076.6	—	—
1932	1,548.0	3.304.3	4,852.3	—	4,852.3	31.9	68.1	100.0	—	100.0	1,906.6	—	1,293.9
1933	2,956.9	3,429.7	6,386.6	—	6,386.6	46.3	53.7	100.0	—	100.0	2,509.5	—	1,703.1
1934	4,511.9	2,530.8	7,042.7	—	7,042.7	64.1	35.9	100.0	—	100.0	2,767.3	—	1,878.1
1935	5,215.2	1,705.7	6,920.9	—	6,920.9	75.4	24.6	100.0	—	100.0	2,719.4	—	1,845.6

Table 8

Turnover in the Public Catering System, as of 1932-1935 Distributed by Organizations

Organizations	Millions of rubles				Share of each organization (per cent of total)			
	1932	1933	1934	1935	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8
1. People's Commissariat for Internal Trade	1,481.0	2,126.6	2,646.6	3,218.2	30.4	33.3	37.6	46.5
Including:								
a) Chief Administration of Dining Rooms	1,193.0	1,716.1	2,038.8	1,988.1	24.7	26.8	28.9	28.7
b) Chief Administration of Restaurants and Cafes	139.9	184.0	421.1	1,025.2	2.9	2.9	6.0	14.8
2. Other State organizations	67.0	30.0	208.8	296.0	1.4	0.5	3.0	4.3
Total State organizations	**1,548.0**	**2,156.6**	**2,855.4**	**3,514.2**	**31.8**	**33.8**	**40.6**	**50.8**
3. Workers' Supply Departments of the People's Commissariat of Heavy Industry	—	365.8	624.4	645.1	—	5.7	8.9	9.4
4. Workers' Supply Departments of the People's Commissariat of Light Industry	—	65.7	89.1	69.2	—	1.0	1.3	1.0
5. Workers' Supply Departments of the People's Commissariat of Railway Transport	—	223.6	543.0	581.9	—	3.5	7.6	8.4
6. Workers' Supply Departments of the People's Commissariat of Timber Industry	—	59.6	105.5	119.6	—	0.9	1.5	1.7
7. Workers' Supply Departments of the People's Commissariat of Water Transport	—	—	88.9	95.3	—	—	1.3	1.4
8. Other Workers' Supply Departments	—	85.6	205.6	189.9	—	1.4	2.9	2.7
Total Workers' Supply Departments	—	**800.3**	**1,656.5**	**1,701.0**	—	**12.5**	**23.5**	**24.6**
9. Consumers' Cooperatives	2,921.5	3,036.3	2,220.0	1,440.5	60.3	47.5	31.5	20.8
10. Producers' Cooperatives	225.3	241.8	181.7	147.5	4.6	3.8	2.6	2.1
11. Cooperative organizations of the disabled	157.5	151.6	129.1	117.7	3.3	2.4	1.8	1.7
Total cooperative organizations	**3,304.3**	**3,429.7**	**2,530.8**	**1,705.7**	**68.2**	**53.7**	**35.9**	**24.6**
Grand total	**4,852.3**	**6,386.6**	**7,042.7**	**6,920.8**	**100.0**	**100.0**	**100.0**	**100.0**

Table 9

Network of Public Catering Enterprises of State and Cooperative Organizations, as of 1933-1935: By Types of Enterprises

Types of Enterprises	Cities					Rural districts					Total				
	Number of enterprises, as at Jan. 1			Per cent of 1933		Number of enterprises, as at Jan. 1			Per cent of 1933		Number of enterprises, as at Jan. 1			Per cent of 1933	
	1933	1934	1935	1934	1935	1933	1934	1935	1934	1935	1933	1934	1935	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1. Kitchen factories	104	137	138	131.7	132.7	—	—	—	—	—	104	137	138	131.7	132.7
2. Factories producing semi-prepared food products (food or dishes)	1	2	3	200.0	300.0	—	—	—	—	—	1	2	3	200.0	300.0
Total kitchen factories	105	139	141	132.4	134.3	—	—	—	—	—	105	139	141	132.4	134.3
3. Mechanized enterprises producing semi-prepared food products (food or dishes)	3	5	8	166.7	266.7	—	—	—	—	—	3	5	8	166.7	266.7
4. Dining rooms, mechanized	550	676	786	122.9	142.9	—	—	—	—	—	550	676	786	122.9	142.9
5. Dining rooms, non-mechanized	16,332	22,029	21,113	134.9	129.3	18,750	17,358	14,251	92.6	76.0	35,082	39,387	35,364	112.3	100.8
6. Enterprises finishing semi-prepared food products delivered to them	199	482	735	242.2	369.3	—	—	—	—	—	199	482	735	242.2	369.3
7. Distributing enterprises	3,184	3,843	3,323	120.7	104.4	—	—	—	—	—	3,184	3,843	3,323	120.7	104.4
Total dining rooms	20,268	27,035	25,965	133.4	128.1	18,750	17,358	14,251	92.6	76.0	39,018	44,393	40,216	113.8	103.1
8. Other enterprises	13,740	9,441	9,744	68.7	70.9	2,984	3,227	2,758	108.1	92.4	16,724	12,668	12,502	75.7	74.8
Grand total	34,113	36,615	35,850	107.3	105.1	21,734	20,585	17,009	94.7	78.3	55,847	57,200	52,859	102.4	94.6

VIII. FOREIGN TRADE

Table 1

Foreign Trade of the U. S. S. R.

(In millions of rubles)

Year	Exports from the U.S.S.R.	Imports to the U.S.S.R.	Total turnover of foreign trade	Trade balance Excess of exports (+) Excess of imports (—)
A	1	2	3	4
1913[1]	1,520.1	1,375.0	2,895.1	+ 145.1
1921—22[2]	63.4	271.1	334.5	— 207.7
1922—23[2]	133.9	148.6	282 5	— 14.7
1923—24[2]	373.2	233.5	606.7	+ 139.7
1924—25	577.8	723.4	1,301.2	— 145.6
1925—26	703.3	756.3	1.459.6	— 53.0
1926—27	806.8	713.6	1,520.4	+ 93.2
1927—28	791.6	945.6	1,737.1	— 154.0
1928 (Oct.-Dec.)	216.5	203.3	419.7	+ 13.2
1929	923.7	880.6	1,804.3	+ 43.1
1930	1.036.4	1.058.8	2,095.2	— 22.4
1931	811.2	1,105.0	1,916.2	— 293.8
1932	574.9	704.0	1,278.9	— 129.1
1933	494.9	348.2	843.1	+ 146.7
1934[3]	418.3	232.4	650.7	+ 185.9
1935[3]	367.4	241.4	608.8	+ 126.0

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[1] Data for 1913 refer to the territory of pre-war Russia.
[2] In prices of 1913.
[3] Exclusive of silver.

Table 2

U. S. S. R. Exports: By Principal Commodity Groups

Exports (Commodity Groups)	1929		1930		1931		1932		1933		1934		1935	
	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Total exports	**14,145**	**923,701**	**21,486**	**1,036,371**	**21,779**	**811,210**	**17,968**	**574,928**	**17,916**	**494.873**	**17,340**	**418,345**	**17,190**	**367,411**
Per cent	—	100.0	—	100.0	—	100.0	—	100.0	—	100.0	—	100.0	—	100.0
A. Raw products of agriculture	525	219,659	5,011	330,717	5,434	248,090	2,188	123,505	1,939	88,492	1,000	66,462	1,689	74,820
Per cent of total	—	23.8	—	31.9	—	30.5	—	21.5	—	17.9	—	15.9	—	20.4
B. Products of industry	13,620	698,367	16,474	698,471	16,345	558,807	15,780	449.791	15,977	405,217	16,339	347,233	15,500	288,845
Per cent of total	—	75.6	—	67.4	—	69.0	—	78.2	—	81.9	—	83.0	—	78.6
Including:														
1. Products of Heavy Industry	7,229	212,993	8,262	232,906	9,211	180,154	9,197	163,757	8,879	166,507	8,991	117,867	8,063	101,640
Per cent of total	—	23.1	—	22.5	—	22.2	—	28.5	—	33.7	—	28.2	—	27.7
2. Products of Light Industry	167	140,411	165	139,315	113	117,786	137	116,619	127	96,110	137	78,479	120	60,443
Per cent of total	—	15.2	—	13.4	—	14.5	—	20.3	—	19.4	—	18.8	—	16.4
3. Products of the Timber Industry	5.546	153,639	7,425	170,785	6,093	115,025	5,694	81,031	6,283	77,081	6,484	89,828	6,776	83,916
Per cent of total	—	16.6	—	16.5	—	14.2	—	14.1	—	15.6	—	21.4	—	22.8
4. Products of the Food Industry	678	191,324	622	155,465	928	145,842	752	88,384	688	65.519	727	61,059	541	42,846
Per cent of total	—	20.7	—	15.0	—	18.1	—	15.3	—	13.2	—	14.6	—	11.7
C. Miscellaneous products	0.3	5,675	1	7.183	0.2	4,313	0.1	1,632	0.1	1,164	1	4,650	1	3,746
Per cent of total	—	0.6	—	0.7	—	0.5	—	0.3	—	0.2	—	1.1	—	1.0

Table 3

U. S. S. R. Imports: According to Utilization

Imports	1929		1930		1931		1932		1933		1934		1935	
	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles	Thousands of tons	Thousands of rubles
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Total imports . .	**1,937**	**880,632**	**2,856**	**1,058,825**	**3,564**	**1,105,034**	**2,322**	**704,040**	**1,236**	**348,216**	**1,025**	**232,426**	**1,259**	**241,374**
Per cent	—	**100.0**	—	**100.0**	—	**100.0**	—	**100.0**	—	**100.0**	—	**100.0**	—	**100.0**
A. For manufacturing purposes . .	1,624	780,017	2,228	932,750	3,275	1,032,617	1,814	627,313	1,079	314,493	795	196,520	1,030	210,182
Per cent of total	—	88.6	—	88.1	—	93.4	—	89.1	—	90.3	—	84.6	—	87.1
B. For consumption (consumers' goods)	313	100,615	628	126,075	289	72,417	508	76,727	157	33,723	230	35,906	229	31,192
Per cent of total	—	11.4	—	11.9	—	6.6	—	10.9	—	9.7	—	15.4	—	12.9

U. S. S. R. Exports: By

Exports (Commodity Groups)	1929		1930	
	Tons	Thousands of rubles	Tons	Thousands of rubles
A	1	2	3	4
Total exports	14,145,009	923,701	21,486,395	1,036,371
Per cent	—	100.0	—	100.0
I. Vegetable products	397,295	48,632	4,947,747	223,766
Per cent of total	—	5.3	—	21.6
II. Timber, cork, wicker and manufactured wicker and wooden articles	5,546,007	153,639	7,424,921	170,785
Per cent of total	—	16.6	—	16.5
III. Live animals and animal products	208,230	123,984	122,287	68,907
Per cent of total	—	13.4	—	6.7
IV. Oils, fats and products of fat-splitting, wax	39,060	11.256	12,132	3,324
Per cent of total	—	1.2	—	0.3
V. Products of the food industry	487,860	92,491	474,941	95,708
Per cent of total	—	10.0	—	9.2
VI. Hides, skins, furs and manufactures	11,419	117,460	12,405	85,707
Per cent of total	—	12.7	—	8.3
VII. Mineral materials and manufactures	7,129,296	193,108	8,116,162	207,089
Per cent of total	—	20.9	—	20.0
VIII. Rubber and manufactures	612	1,573	585	1,376
Per cent of total	—	0.2	—	0.1
IX. Chemical and pharmaceutical products, paints, varnishes, perfumery and cosmetics, soap, candles, glue, gelatine, explosives and fertilizers	84,429	22,694	119,304	21,271
Per cent of total	—	2.5	—	2.0
X. Stationery goods, books and other printed matter	1,645	2,079	3,747	4,250
Per cent of total	—	0.2	—	0.4
XI. Yarns and yarn goods	171,616	129.128	184,220	121,068
Per cent of total	—	14.0	—	11.7
XII. Metals and metal wares	45,935	8,073	46,976	9,257
Per cent of total	—	0.9	—	0.9
XIII. Machinery and apparatus (including electrical machinery and apparatus)				
Per cent of total				
XIV. Precision instruments or apparatus	2,680	2,393	3,193	2,317
Per cent of total	—	0.3	—	0.2
XV. Transportation equipment				
Per cent of total				
XVI. Sundry unspecified commodities	18,925	17,191	17,775	21,546
Per cent of total	—	1.8	—	2.1

Principal Commodity Groups

1931		1932		1933		1934		1935	
Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
5	6	7	8	9	10	11	12	13	14
21,778,910	811,210	17,967,894	574.928	17,916,338	494,873	17,340,174	418,345	17,190,462	367,411
—	100.0	—	100.0	—	100.0	—	100.0	—	100.0
5,364,112	176,897	2,171,735	81,591	1,932,370	58,510	1,077,333	42,454	1,723,760	50,850
—	21.8	—	14.2	—	11.8	—	10 2	—	13.8
6,092,637	115,024	5,694,040	81,031	6,283,508	77,080	6,484,376	89,828	6,775,354	83,918
—	14.2	—	14.1	—	15 6	—	21.5	—	22.8
136,202	64,493	91,439	35,439	89,858	24,767	72,877	20,683	43,787	17,398
—	8.0	—	6.2	—	5.0	—	4.9	—	4.7
28,755	5,225	42,589	5,225	28,420	3,581	37,473	3,782	14,829	2,149
—	0.6	—	0.9	—	0.7	—	0.9	—	0.6
724,649	78,857	556,705	45,568	513,958	34,896	477,903	29,068	420,633	22,448
—	9.7	—	7.9	—	7.1	—	6.9	—	6.1
15,889	64,942	18,587	48,162	12,714	44,490	8,204	37,968	7,756	32,934
—	8.0	—	8.4	—	9.0	—	9 1	—	9.0
9,060,317	159,440	9,025,400	137,092	8,354,434	106,587	8,112,716	89,680	7,067,757	77,495
—	19 7	—	23.8	—	21.5	—	21.4	—	21.1
634	1,104	390	786	842	854	814	1,260	241	227
—	0.1	—	0.1	—	0.2	—	0.3	—	0 1
128,160	16,235	158,595	12,697	486,121	14,789	731,144	17,299	607,764	10,837
—	2.0	—	2.2	—	3.0	—	4.1	—	3.0
1,179	1,511	2,327	998	4,033	1,062	11,034	1,082	7,694	797
—	0.2	—	0.2	—	0.2	—	0.3	—	0.2
171,676	101,533	166,168	99,913	148,315	71,797	162,008	63,388	121,513	48,773
—	12.5	-	17.4	—	14.5	—	15.2	-	13.3
38,965	6,668	29,926	14,814	54,420	44,598	154,699	6,971	384,138	7,272
—	0.8	—	2.5	—	9.0	—	1.7	—	2.0
				3,284	3,682	5,693	3,742	8,818	4,429
				—	0.7	—	0.9	—	1.2
7,131	4,566	6,177	4,860	—	—	27	174	40	130
—	0.6	—	0.9	—	—	—	0.0	—	0.0
				466	935	2,770	2,322	5,202	2,621
				—	0.2	—	0.5	—	0.7
8,604	14,715	3,816	6,752	3,595	7,245	1,103	8,644	1,176	5,133
—	1.8	—	1.2	—	1.5	—	2.1	—	1.4

U. S. S. R. Imports: By

Imports (Commodity Groups)	1929		1930		1931	
	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
A	1	2	3	4	5	6
Total imports	1,936,699	880,632	2,855,900	1,058,825	3,564,352	1,105,034
Per cent	—	100.0	—	100.0	—	100.0
I. Vegetable products	191,534	68,167	156,991	52,088	97,260	32,081
Per cent of total	—	7.8	—	4.9	—	2.9
II. Timber, cork, wicker and manufactured wicker and wooden articles	14,026	3,835	13,265	2,901	8,462	1,332
Per cent of total	—	0.4	—	0.3	—	0.1
III. Live animals and animal products	99,272	17,929	176,826	33,689	166,162	34,454
Per cent of total	—	2.0	—	3.2	—	3.1
IV. Oils, fats and products of fat-splitting, wax	3,089	1,440	9,866	5,301	30,193	10,582
Per cent of total	—	0.2	—	0.5	—	1.0
V. Products of the food industry	43,270	7,456	314,980	36,779	7,916	3,660
Per cent of total	—	0.8	—	3.5	—	0.3
VI. Hides, skins, furs and manufactures	46,101	56,649	30,291	31,925	31,466	26,746
Per cent of total	—	6.4	—	3.0	—	2.4
VII. Mineral materials and manufactures	122,236	6,969	209,192	11,026	456,782	16,346
Per cent of total	—	0.8	—	1.0	—	1.5
VIII. Rubber and manufactures	13,092	12,259	16,612	14,112	28,803	14,683
Per cent of total	—	1.4	—	1.3	—	1.3
IX. Chemical and pharmaceutical products, paints, varnishes, perfumery and cosmetics, soap, candles, glue, gelatine, explosives and fertilizers	323,756	53,165	296,372	47,943	135,229	22,454
Per cent of total	—	6.0	—	4.5	—	2.0
X. Stationery goods, books and other printed matter	132,990	17,445	146,408	15,810	97,742	6,440
Per cent of total	—	2.0	—	1.5	—	0.6
XI. Yarns and yarn goods	220,635	245,786	148,159	136,009	139,906	91,475
Per cent of total	—	27.9	—	12.9	—	8.3
XII. Metals and metal wares	475,413	122,453	850,341	175,428	1,757,919	251,982
Per cent of total	—	13.9	—	16.6	—	22.8
XIII. Machinery and apparatus (including electrical machinery and apparatus)	173,879	185,855	332,060	360,937	434,640	437,024
Per cent of total	—	21.1	—	34.1	—	39.6
XIV. Precision instruments or apparatus	1,008	11,804	1,036	10,413	1,236	12,118
Per cent of total	—	1.4	—	1.0	—	1.1
XV. Transportation equipment	76,127	65,162	153,210	119,886	170,492	142,520
Per cent of total	—	7.4	—	11.3	—	12.9
XVI. Sundry unspecified commodities	271	4,258	291	4,578	144	1,137
Per cent of total	—	0.5	—	0.4	—	0.1

Principal Commodity Groups

1932		1933		1934		1935	
Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
7	8	9	10	11	12	13	14
2,322,109	704,040	1.236,118	348,216	1,025,160	232,426	1,259,078	241,374
—	100.0	—	100.0	—	100 0	—	100.0
282,754	38,612	46,641	8,964	116,822	12,536	136,493	15,304
—	5.5	—	2.6	—	5.4	—	6.3
3,297	294	11,909	653	8,498	588	6,204	410
—	0.0	—	0.2	—	0.2	—	0.2
183,140	29,277	103,526	19,256	115,230	19,029	124,985	14,898
—	4.2	—	5.5	—	8.2	—	6.2
8,777	2,864	1,004	356	1,279	732	13,198	1,738
—	0.4	—	0.1	—	0.3	—	0.7
44,172	4,616	10,305	2,542	17,630	3,816	8,458	3,288
—	0.7	—	0.7	—	1.6	—	1.4
21,415	16,738	10,046	13,934	16,212	15,922	22,409	13,657
—	2.4	-	4.0	—	6 9	—	5.7
135,666	6,252	38,374	2,305	74,619	2,996	204,360	2,955
—	0.9	—	0.7	—	1.3	-	1.2
30,866	7,879	31,311	6,429	48,147	16,514	38,317	14,255
—	1.1	—	1.8	—	7 1	—	5 9
16,196	6,754	10,656	5,163	13,258	8,256	11,478	8,285
—	1.0	—	1.5	—	3.6	-	3 4
4,216	1,327	2,959	869	3,642	752	5,372	708
—	0.2	—	0.2	—	0.3	—	0.3
70,396	52,062	85,578	38,993	90,013	27,826	143,043	43,547
—	7.4	—	11.2	—	12 0	—	18.0
1,085,890	147,328	671,408	100,095	452,982	65,265	472,929	66,053
—	20.9	—	28.8	—	28.1	—	27.4
375,213	353,838	176,645	128,475	52,261	47,411	39,235	40,108
—	50.3	—	36.9	—	20.4	—	16.6
1,406	11,577	737	5,502	366	3,782	471	3,533
—	1.6	—	1.6	—	1.6	—	1.5
58,574	23,546	34,927	13,743	14,047	5,531	31,954	10,995
—	3.3	—	3.9	—	2.4	—	4.5
131	1,076	92	937	154	1,470	172	1,640
—	0.1	—	0.3	—	0.6	—	0.7

Exports (Principal Commodities)	1929		1930		1931	
	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
A	1	2	3	4	5	6
Total U.S.S.R. exports	**14.145,009**	**923,701**	**21,486,395**	**1,036,371**	**21,778,906**	**811,210**
Including:						
Cereals	260,088	22,445	4,841,293	206,120	5,177,882	156,558
Of which:						
Wheat	1	0.1	2,530,935	130,318	2,498,958	77,112
Rye	1,133	106	645,632	21,009	1,108,825	31,980
Barley	158,512	8,775	1,181,407	36,714	963,879	26,865
Oats	7.854	391	352,520	11,243	387,053	12,036
Maize	10,623	596	53,633	1,996	96,964	2,158
Legumes	81,965	12,577	77,166	4,840	122,203	6,407
Flour (every description)	12,844	3,155	16,292	3,174	31,367	5,349
Oilseeds	23,678	3,502	17,853	2,364	75,058	3,146
Seeds, except oilseeds	15,832	2,402	8,925	866	12,067	626
Medicinal herbs (exclusive of licorice root)	5,336	2,577	2,180	1,143	4,189	1,166
Licorice root	9,863	1,133	9,385	1,096	6,474	708
Dried fruits	9,851	3,094	6,729	1,581	4,632	1,054
Wood, unmanufactured	2.937,989	50,236	4,207,051	63,424	3,020,030	32,364
Wood, semi-manufactured	255,189	10,806	449,335	14,289	239,883	6,761
Sawn timber	2,297,512	82,826	2,711,680	84,442	2,762,158	67,507
Plywood	53,271	8,641	53,557	7,583	61,151	6,961
Game and poultry, killed	21.237	14,192	17,273	13,068	18,445	9,628
Bacon	12.881	9,065	2,717	1,937	1,849	734
Butter	25,371	31,004	10,522	10,513	30,855	24,282
Eggs { boxes	401,500	—	90,225	—	180,844	—
Eggs { tons	44,375	23,955	9,845	3,740	20,437	5,691
Fish (every description)	35,688	8,208	38,045	8,918	48,533	10,383
Bristles	1,271	6,648	1,065	6,049	593	2,142
Casings and stomachs	8,630	15,293	10,316	16,068	6,850	7,075
Vegetable oils	32,747	9,289	8,550	2,406	26.992	4,826
Canned foods (every description)	13,069	8,388	41,489	27,127	28,385	15,940
Caviar	789	7,359	457	4,758	375	4,344
Sugar (every description)	126,753	34,356	101,870	27,006	319,789	32,689
Confectionery	1,800	1,077	3,442	2,052	5,312	2,664
Leaf tobacco	9,139	9,733	9,113	11,448	2,898	2,871
Tobacco manufactures	2,071	1,522	1,452	1,929	1,789	2,217
Oil cake	295,308	24,824	278,566	15,752	328,610	14,148
Peltry, undressed	2,430	88,345	1,839	56,236	1,646	34,878
Peltry, dressed and dyed	1,253	18,278	1,317	20,604	1,313	21,322
Raw hides and skins	7,323	10,205	8,635	7,669	12,460	6,308
Hides and skins, dressed	109	521	256	832	420	1,948
Leather footwear and manufactures	61	324	110	711	316	2,529
Coal, anthracite	1,338,590	12,396	1,857,753	16,788	1,674,811	14,182
Coal tar pitch	26,057	430	27,202	802	28,016	447
Other coke and benzole products	1.833	229	1,754	221	2,082	233
Crude petroleum	310,264	8,084	293,659	7,982	382,175	6,708
Kerosene	787,828	28,713	781,158	27,676	770,854	22,476

Table 6

By Principal Commodities

1932		1933		1934		1935	
Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
7	8	9	10	11	12	13	14
17,967,894	**574,928**	**17,916,338**	**494,873**	**17,340,174**	**418,345**	**17,190,462**	**367.411**
1,808,132	56,986	1,759,667	45,257	841,050	23,133	1,594,647	40,251
550,917	19,208	748,248	20,554	211,766	5,932	719,350	20,842
421,051	13,267	157,226	3,678	99,797	1,707	42,568	943
422,082	11,958	567,094	11,178	181,731	4,708	587,724	10,457
17,230	639	83,588	1,928	141,408	3,415	156,450	4,298
311,115	6,658	123,673	2,479	125,745	2,311	10,216	188
85,737	5,256	79,838	5,440	80,603	5,060	78,339	3,523
31,917	4,602	31,517	3,929	56,774	5,743	30,380	1,123
228,810	9,637	64,925	2,562	23,859	833	4,214	223
19,964	910	6,987	303	32,729	3,123	26,953	3,098
4,092	1,100	5,675	771	4,822	611	2,462	424
5,932	521	6,640	525	5,874	634	8,655	509
12,661	2,410	7,151	982	3,476	912	6,308	842
2,674,387	21,972	3,010,585	21,038	3,116,246	23,589	3,322,059	23,561
231,163	4,988	245,376	4,348	302,513	3,983	236,772	3,757
2,680,967	44,532	2,926,128	45,144	2,930,195	55,425	3,078,914	48,990
102,238	9,033	99,050	6,200	125,983	6.302	126,921	7,161
10,062	4,142	5,005	1,809	2,537	844	2,080	713
1,813	380	2,207	635	2,683	990	2,181	790
30,934	15,872	37,205	12,221	37,903	10,163	29,393	9,813
66,955	—	19,064	—	13,510	—	84	—
7,181	1,632	1,970	245	1,205	187	9	3
26,938	3,708	29,168	3,063	19,011	1,757	4,079	701
704	2,063	409	987	681	1,462	571	1,714
6,466	5,525	4,735	3,702	4,831	3,790	2,623	2,696
37,904	4,403	26,087	3,235	35,399	3,368	11,335	1,348
18,703	8,442	23,572	6,090	13,353	3,436	3,665	1,618
297	2,276	293	1,952	312	2,044	280	1,826
76,121	12,798	38,388	5,544	48,700	4,569	76,471	5,456
2,017	1,447	2,703	1,596	4,485	2,249	1,317	393
3,171	1,994	5,268	2,417	4,451	2,108	4,462	2,065
3,483	2,217	4,595	2,434	4,979	2,498	3,155	772
431,878	14,165	410,511	12,597	389,686	10,394	323,136	9,377
1,450	24,129	1,244	16,808	1,770	17,663	1,637	15,552
1,657	18,174	2,256	21,750	1,510	14,613	1,146	14,440
14,615	3,295	8,254	2,787	4,173	2,273	4,418	1,887
601	1,995	858	2,596	523	2,242	372	393
355	1,547	492	2,598	586	3,654	430	1,261
1,795,184	12,433	1,817,534	10,390	2,207,197	10,049	2,248,424	9,719
45,961	855	49,558	1,110	65,595	1,078	74,397	733
1,589	122	6,562	616	16,015	755	21,265	571
525,915	7,599	525,518	4,965	458,519	3,033	206,688	1,644
828,776	21,273	570,328	11,940	435,573	6,955	416,203	6,893

Exports (Principal Commodities)	1929		1930		1931	
	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
A	1	2	3	4	5	6
Motor spirit (benzine) and ligroin	1,097,440	67,679	1,453,586	80,103	1,656,074	50,236
Lubricating oils	277,787	14,276	293,601	13,853	272,310	12,146
Fuel oil	1,119,140	12 987	1,447,927	17,816	1,718,602	16,135
Other petroleum products	265,763	6,204	442,504	9,620	494,286	7,960
Manganese ore	1,037,122	20,440	768,984	13,208	741,705	9,774
Iron ore	545,204	5.483	451,836	3,803	1,119,108	6,564
Other metal ores	52,630	2,679	49,915	2,613	71,282	2,768
Asbestos	12.603	4,571	15,749	4,417	13,239	2,485
Cement	78,494	1.494	71,054	1,235	46,732	647
Asphalt	131	4	128	7	740	16
Paraffin	—	—	—	—	—	—
Glassware, china, pottery and ceramics	9,304	4,636	9,053	4,192	13,514	4,358
Rubber goods	4,452	9,317	2,931	7,826	1,665	3,529
Soda	602	69	13.034	888	30,585	1,584
Products of dry distillation of wood	12,638	1,544	8,996	1,246	16,178	1,607
Santonin (quantities in kilograms)	8,645	4,020	9,390	4,339	3,562	1,634
Other pharmaceutical chemicals	22,443	3,134	46,402	5,757	52,184	5,503
Matches	23,481	7,533	13,019	3,831	5,925	1,386
Apatite	—	—	13,639	129	7,367	32
Other fertilizers	12,711	489	11,540	383	1,516	61
Paper and paper goods	1,548	771	3,582	1,710	1,077	467
Hair	5,403	5,219	8,209	7,089	10,301	3,573
Cotton and cotton waste	2,718	2,551	10,134	6,981	40,180	18,005
Thread and cotton yarn	939	1,866	999	3,974	507	1,725
Cotton fabrics	13,231	43,953	13,395	46,645	15,862	46,369
Flax, hackled	5,399	5,559	6,777	4,362	7,465	2,832
Flax	65,182	38,032	58,442	23,582	57,988	13,233
Hemp	18,815	5,753	11,872	2,643	172	24
Hackled flax combings	10,471	5,529	13,074	3,702	14,316	1,948
Flax yarn	2,345	2,404	3,328	3,309	1,306	720
Carpets	312	3,930	274	3,479	529	3,682
Handicraft goods	717	1,204	767	2,221	516	1,401
Rags	41,572	6,326	52,387	6,378	19.668	2,057
Pig iron	349	19	2,133	95	1,700	62
Other ferrous metals	11,257	2,237	17,041	4,093	10,077	2,059
Rails	8,335	830	260	30	156	38
Ferrous metal products for industrial purposes Metal wares (consumers' goods)	7,033	4,301	7,172	4,320	6,776	3,893
Agricultural machinery	1,274	599	2,030	969	5,470	2,074
Other machinery and apparatus	1,094	1,250	1,015	973	1,300	1,667
Motor transport equipment	—	—	—	—	—	—
Electric wares [1]	312	544	148	375	361	825

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[1] 1934-1935 including electrical equipment.

Table 6 (Continued)

1932		1933		1934		1935	
Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
7	8	9	10	11	12	13	14
2,017,554	49,565	1,295,966	33,026	1,119,938	22,368	658,256	12,414
232,340	8,357	292,030	8,316	305,323	8,426	307,904	7,719
1,870,185	12,154	1,533,816	9.034	1,300,864	9,595	1,133,680	7,535
631,233	8,308	676,794	8,391	651.495	7,348	612,419	6,274
415,609	3,771	655,007	4,512	736,875	4,843	644,874	5,020
342,272	1,632	509,058	2,344	342,428	1,068	158,195	629
47,870	1,355	54,267	940	82,361	3,666	134,147	7,562
16,551	2,381	21,458	2,651	33,715	3,248	25,090	2,274
38,448	551	87,453	1,899	66,311	788	133,403	1,461
11,268	213	29,459	537	28,903	466	18,614	212
—	—	5,532	507	14,138	1,415	14,498	1,392
21,753	4,696	20,668	3,130	23,207	1,935	23,761	1,793
1,578	2,408	1,213	1,570	1,096	1,631	579	611
30,289	1,269	50,164	1,648	35,056	1,003	1,403	50
20,631	1,646	15,052	1,588	23,782	1,870	13,924	1,364
3,236	1,180	—	—	7,618	578	4,777	261
35,162	2,944	60,561	4,613	48,781	4,129	29,596	2,381
8,561	1,540	10,645	1,974	11,785	1,939	8,553	1,001
45,125	281	283,952	1,488	414,583	2,489	395,683	2,389
4,188	263	52,155	592	193,010	2,675	161,867	2,010
2,153	746	3.887	603	11,026	1,069	7,694	797
7,077	2,064	8,740	2,478	6,182	2,297	4,835	2,043
17,860	5,495	5,379	508	10,971	2,708	6,398	1,026
643	1,826	846	1,411	1,147	1,408	1,014	1,058
18,837	49,862	15,296	29,826	20,822	23,250	19,172	16,112
8,267	3,516	4,995	2,021	10,169	3,748	7,844	3,950
55,484	13,612	60,499	14,414	81,149	14,372	51,165	15,782
1,258	139	42	8	13	5	51	6
18,684	4,197	22,524	4,086	—	—	—	—
2,346	1,298	2,716	1,405	5,184	2,718	592	384
619	2,554	491	1,861	406	1,326	297	861
1,665	2,254	3,709	2,423	1,088	871	841	890
18,162	1,758	18,703	1,552	18,162	1,758	25,418	2,681
87	5	5	0.3	115,401	1,153	331.189	3,657
4,968	954	4,661	870	15,484	1,170	42,894	1,680
3,307	317	32,450	2,496	15,843	994	1,629	80
7,602	4,703	6,674	2,359	5,836	1,831	6,224	1,040
				1,971	1,669	1,973	749
3,640	1,909	1,682	767	2,226	398	3,519	484
2,180	2,292	1,219	1,822	2,912	2,376	4,559	3,050
—	—	466	935	1,354	1,385	3,230	2,369
357	659	340	1,066	560	973	740	895

nports to the U. S. S. R.

Imports (Principal Commodities)	1929		1930		1931	
	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
A	1	2	3	4	5	6
otal U.S.S.R. imports	**1,936,699**	**880,632**	**2,855,900**	**1,058,825**	**3,564,352**	**1,105,034**
Including:						
rain	29,409	2,022	7,307	624	172	9
ice	46,876	11,575	57,272	13,170	49,182	9,991
eeds	3,435	2,234	12,508	5,104	4,460	2,460
ried fruit	29,014	9,236	15,637	3,944	5,452	1,121
offee	1,490	1,276	510	386	1,178	632
ea	28,590	28,810	24,227	20,611	20,708	12,632
ums, resins, etc.	1,637	2,293	1,781	2,438	1,927	2,078
ork bark	8,286	2,698	6,563	1,896	2,166	573
attle (head)	54,790	4,050	137,594	10,536	141,681	10,696
heep and goats (head)	323,991	6,267	750,254	9,079	713,434	10,163
orses (head)	4,881	1,354	6,684	919	13,174	1,032
eat products	190	71	1,092	454	1,896	636
ish	60,667	4,247	82,885	8,808	47,730	6,147
egetable oils	1,721	686	2,249	825	4,280	914
ugar	36,396	3,833	310,862	33,555	72	9
acao	4,832	2,523	2,701	1,183	4,198	1,121
eaf tobacco	1	2	0,4	1	2,188	532
Peltry	413	9,472	560	5,004	528	4,399
Hides and skins, raw	43,082	38,249	28,098	21,520	28,970	18,342
Hides and skins, dressed	2,587	8,807	1,617	5,355	1,959	3,974
Coal	65,980	599	63,618	601	106,603	1,215
Sulphur	19,070	1,351	20,637	1,364	22,346	1,297
Abrasives, crude and manufactured	1,747	787	3,218	1,163	3,404	1,144
Fire brick and clay	12,128	770	92,988	4,113	267,691	8,453
Rubber, raw	12,827	11,454	16,408	13,691	28,210	13,876
Chemical and pharmaceutical products	81,330	21,623	96,686	21,496	81,810	14,299
Tanning materials	39,213	6,649	37,211	6,851	768	371
Dyes	4,373	6,962	4,782	3,953	2,007	1,243
Fertilizers	197,874	11,201	155,893	10,457	45,890	3,187
Wood pulp	57,114	5,639	75,947	5,715	68,383	2,483
Paper, cardboard and paper goods	75,678	11,287	70,163	9,322	29,028	3,562
Silk	349	3,150	133	1,543	189	907

By Principal Commodities

1932		1933		1934		1935	
Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
7	8	9	10	11	12	13	14
2,322,109	**704,040**	**1,236,118**	**348,216**	**1,025,160**	**232,426**	**1,259,078**	**241,374**
138,325	6,430	6,808	234	33,021	1,061	15,337	606
66,922	14,365	10,543	876	28,701	1,490	39,040	2,357
1,830	922	2,536	435	5,533	461	19,717	1,346
11,101	2,773	1,459	242	1,130	129	9,488	807
237	105	58	29	381	149	514	144
15,949	7,751	19,307	5,764	25,812	6,468	23,638	6,895
1,490	1,741	495	618	1,817	1,068	2,687	1,314
1,591	149	1,879	123	2,207	156	3,992	295
147,156	6,942	86,773	3,815	94,330	4,879	116,377	3,307
1,045,004	9,638	853,053	8,704	827,322	4,844	910,833	3,715
26,691	1,700	14,587	1,038	7,073	314	5,113	313
9,220	2,984	5,901	1,813	10,479	3,271	5,926	1,164
71,122	6,780	24,482	2,167	26,457	3,373	22,773	3,363
6,313	1,781	845	216	753	202	9,065	1,251
41,507	2,638	6,944	482	11,370	533	254	23
315	83	905	163	1,406	220	4,640	702
463	100	1,058	263	3,287	674	2,217	767
561	6,070	533	6,863	874	8,086	649	5,505
20,103	9,606	8,554	6,071	14,229	6,486	20,335	6,590
746	1,048	957	986	1,099	1,331	1,394	1,523
52,511	465	15,403	81	26,340	129	36	0.2
3,012	194	3,078	175	4,233	136	21	1
2,167	1,566	2,426	1,165	1,620	1,171	1,760	1,131
64,890	2,542	3,316	185	410	23	156	6
30,738	7,698	31,270	6,385	48,108	16,488	38,271	14.224
9,441	4,095	6,237	3,482	11,352	5,438	9,595	5,007
1,075	197	1,062	177	105	11	125	14
2,421	1,101	1,629	934	984	2,084	695	2,277
2,167	311	501	65	13	4	2	1
3,230	207	2,246	87	2,982	120	4,852	181
620	416	559	292	457	225	413	203
205	1,617	276	512	254	220	62	23

Imports (Principal Commodities)		1929 Tons	1929 Thousands of rubles	1930 Tons	1930 Thousands of rubles	1931 Tons	1931 Thousands of rubles
A		1	2	3	4	5	6
Wool and animal hair		39,293	68,697	32,835	42,308	30,897	32,400
Woolen goods		770	6,779	289	2,869	75	455
Cotton		115,031	117,269	57,876	55,992	53,749	40,568
Cotton and woolen yarn		4,539	17,411	3,127	8,918	443	719
Cotton fabrics		1,039	3,414	316	1,157	96	480
Jute, sisal and other vegetable fibers		43,633	13,679	38,810	10,568	34,733	5,775
Knitted goods		131	1,870	61	614	10	114
Rags		5,986	3,617	9,733	4,160	12,163	3,410
Ferrous metals		300,734	36,335	619,720	74,712	1,329,456	126,142
Ferrous metal products for industrial purposes		56,417	24,493	99,162	44,201	304,170	73,400
Non-ferrous metals		116,943	58,672	128,830	53,135	122,036	48,358
Inclusive of:							
Copper		25,122	19,894	20,633	12,873	25,110	10,479
Nickel		950	1,575	2,883	4,339	3,806	6,154
Aluminum		6,544	6,273	9,990	9,009	20,263	15,460
Lead		5,050	10,647	4,906	7,887	4,486	5,122
Tin		44,283	10,406	50,174	10,005	41,877	5,807
Zinc		34,124	9.071	38,363	7,817	23,653	3,790
Machinery, apparatus and parts		106,592	122,744	239,308	273,305	356,525	356,151
Agricultural machinery and parts		52,602	28,472	66,628	38,384	40,330	26,287
Electric machinery and electric fittings		14,685	34,639	26,124	49,248	37,785	54,586
Precision instruments		1,008	11,804	1,036	10,413	1,236	12,138
Railway cars	units	no data	2,994	446	5,320	713	8,722
	tons	5,903		12,179		21,236	
Tractors and tractor parts		34,922	34,847	74,458	71,565	82,347	79,627
Motor vehicles (units)		5,159	12,390	6,671	14,389	2,892	12,319
Automobile and motor cycle spare parts		1,169	2,449	9,799	11,743	26,511	24,982
Ships and boats	units	380	10,552	685	15,112	345	11,602
	tons	22,842		44.401		25,931	

1932		1933		1934		1935	
Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles	Tons	Thousands of rubles
7	8	9	10	11	12	13	14
26,050	24.176	28,627	21,653	26,909	14,814	34,430	15,769
288	1,808	57	392	51	301	161	466
24,299	17,851	22,554	9,911	24,875	6,467	44,220	16,250
105	191	94	265	77	113	1,236	1,729
81	332	1	16	18	89	129	136
11,990	1,578	23,558	2,754	29,101	2,780	46,837	4,687
24	231	73	445	62	239	30	68
4,888	1,289	7,445	1,387	8,086	1,985	8,520	2,376
902,103	79.738	483,763	47,005	323,285	25,992	253,800	21,532
104,995	34,426	126,379	29,077	78,066	17,217	137,486	16,362
75,806	28,987	48,735	21,704	51,386	21,746	78,523	26,988
11,960	4,391	7,874	2,144	11,487	2,456	29,590	6,035
3,958	6,556	3,498	4,884	4,253	5,185	5,582	6,033
10,498	7.416	10,564	6,837	5,059	3,027	538	336
3.910	4,819	4,117	5,410	5,895	8,726	7,428	10,333
33,778	8,902	16.405	1,377	18,729	1.343	30,899	2,615
10,603	1,416	5,804	673	4,317	468	1,474	137
325,538	287,383	157.028	110,747	40,592	39,231	32,552	35,560
1,617	839	151	124	59	43	70	48
48,058	65,616	19,466	17,604	11,612	8,137	6,613	4,500
1,406	11.577	737	5,502	366	3,782	471	3,533
575	5,494	178	642	109	34	4	18
14,312		2,632		170		110	
328	374	2,726	2,387	57	88	70	93
978	2,416	448	1,304	449	798	271	440
10,865	5.851	4,597	1,707	534	918	835	891
77	8,108	126	4,029	97	2,855	168	9,201
29,896		19,423		11,573		30,022	

Exports from the

Importing Countries	1913		1929		1930	
	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total
A	1	2	3	4	5	6
1. Afghanistan	5,946	0.4	6,441	0.7	7,850	0.8
2. Argentina	0.2	0.0	3,715	0.4	3,691	0.4
3. Austria	65,297	4.3	8,380	0.9	3,568	0.3
4. Belgium	64,663	4.3	19,163	2.0	26,904	2.6
5. Czechoslovakia	—	—	8,380	0.9	4,144	0.4
6. Denmark	36,425	2.4	17,764	1.9	14,172	1.4
7. Eastern China	28,801	1.8	6,952	0.8	12.493	1.2
8. Egypt	8.671	0.6	9,038	0.9	9,061	0.9
9. Esthonia	—	—	3,546	0.4	6,432	0.6
10. Finland	55,284	3.6	6,994	0.8	3,732	0.4
11. France	100,879	6.6	42,543	4.6	44,146	4.3
12. Germany	453,584	29.8	215,126	23.3	205,702	19.8
13. Great Britain	267,801	17.6	202,568	21.8	279,910	27.0
14. Greece	6,859	0.5	5,800	0.6	10,473	1.0
15. Holland	177,412	11.7	31,251	3.4	34,845	3.4
16. India	41	0.0	5,099	0.6	6,779	0.7
17. Italy	73,761	4.9	32,874	3.6	53,148	5.2
18. Japan	1,409	0.1	19,271	2.1	16,029	1.5
19. Latvia	—	—	78,013	8.4	52,297	5.0
20. Lithuania	—	—	1,543	0.2	2,586	0.2
21. Mongolia	2,689	0.2	10,046	1.1	17,819	1.7
22. Norway	6,696	0.4	3,534	0.4	6,258	0.6
23. Iran	57,703	3.8	69,624	7.6	60,284	5.8
24. Poland	—	—	13,294	1.4	14,131	1.4
25. Spain	8,925	0.6	11.645	1.3	12,057	1.2
26. Sweden	11,422	0.8	2,178	0.2	5,139	0.5
27. Switzerland	83	0.0	990	0.1	151	0.0
28. Turkey	35,783	2.4	17,288	1.9	16,195	1.6
29. Tuva	—	—	2,540	0.3	2.092	0.2
30. United States of America	14,155	0.9	42,721	4.6	40,932	3.9
31. Western China	—	—	16,396	1.8	16,027	1.5
32. Other countries	35,846	2.3	8,984	1.0	47,323	4.5
Total U.S.S.R. exports	**1,520,135**	**100.0**	**923,701**	**100.0**	**1,036,371**	**100.0**

Table 8

U.S.S.R.: By Countries

1931		1932		1933		1934		1935	
Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total
7	8	9	10	11	12	13	14	15	16
11,523	1.4	14,579	2.5	7,066	1.4	3,103	0.7	3,469	0.9
3,139	0.4	675	0.1	889	0.2	2,309	0.5	2,07[illegible]	0.6
2,214	0.3	1,307	0.2	876	0.2	406	0.1	1,203	0.3
18,238	2.3	19,301	3.4	27,340	5.5	17,230	4.1	20,424	5.6
5,134	0.6	1,380	0.2	1,095	0.2	837	0.2	1,309	0.4
13,655	1.7	6,612	1.2	9,350	1.9	7,576	1.8	6,433	1.7
11,064	1.4	8,086	1.4	7,171	1.5	2,055	0.5	509	0.1
3,681	0.5	6.165	1.1	4,044	0.8	3,107	0.7	4,552	1.2
8,352	1.0	7,398	1.3	1,959	0.4	860	0.2	624	0.2
4,616	0.6	5,338	0.9	5,426	1.1	4,703	1.1	3,539	1.0
28,330	3.5	28,698	5.0	22,893	4.6	21,879	5.2	18,041	4.9
129,338	15.9	100.499	17.5	85,747	17.3	98,431	23.6	66.048	18.0
266,071	32.8	138,485	24.1	86,983	17.6	69,182	16.6	86,255	23.5
10,081	1.2	9,435	1.6	6,545	1.3	3,110	0.7	6,176	1.7
29,265	3.6	21,517	3.7	25,890	5.2	22,224	5.3	16,127	4.4
10,152	1.3	5,219	0.9	3,421	0.7	2,769	0.7	3,026	0.8
39,749	4.9	27,031	4.7	22,226	4.5	18,993	4.5	12,112	3.3
19,817	2.4	10,099	1.8	9,124	1.8	5,782	1.4	5,495	1.5
27,810	3.4	9,776	1.7	2,395	0.5	645	0.2	795	0.2
4,165	0.5	4,151	0.7	2,728	0.6	1,197	0.3	1,680	0.5
37,343	4.7	41,395	7.2	38,562	7.8	44,806	10.7	11,633	3.2
3,968	0.5	3,943	0.7	3,830	0.8	3,127	0.7	2,493	0.7
32,476	4.0	25,368	4.4	12,008	2.4	11,785	2.8	15,661	4.3
7,510	0.9	4,801	0.8	4,271	0.9	3,641	0.9	3,354	0.9
3,469	0.3	7,955	1.4	5,531	1.1	7,464	1.8	2,785	0.8
6,681	0.8	6,209	1.1	5,920	1.2	5,634	1.3	4,360	1.2
44	0.0	3	0.0	241	0.0	491	0.1	2,022	0.5
12,515	1.5	5,498	1.0	3,798	0.8	5,438	1.3	8,874	2.4
2,652	0.3	4,388	0.8	5,495	1.1	7,049	1.7	2,703	0.7
22,690	2.8	17,194	3.0	13,965	2.8	14,277	3.4	26,544	7.2
13,954	1.7	15,698	2.7	10,856	2.2	4,730	1.1	6,049	1.6
21,514	2.8	16,725	2.9	57,228	11.6	23,505	5.8	21,044	5.7
811,210	**100.0**	**574,928**	**100.0**	**494,873**	**100.0**	**418,345**	**100.0**	**367,411**	**100.0**

Imports to the

Countries of Origin	1913		1929		1930	
	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total
A	1	2	3	4	5	6
1. Afghanistan	6,299	0.5	11,251	1.3	9,628	0.9
2. Argentina	—	—	28,386	3.2	17,366	1.6
3. Australia	366	0.0	17,458	2.0	12,165	1.1
4. Austria	35.698	2.6	22,583	2.6	14,844	1.4
5. Belgium	8,892	0.7	4,501	0.5	6,557	0.6
6. Canada	—	—	1,041	0.1	1,427	0.1
7. Czechoslovakia	—	—	18,420	2.1	27,143	2.6
8. Denmark	12,867	0.9	3,529	0.4	7,272	0.7
9. Eastern China	75,650	5.5	18,124	2.0	8,432	0.8
10. Egypt	5,939	0.4	21,995	2.5	18,432	1.7
11. Esthonia	—	--	1,728	0.2	2,871	0.3
12. Finland	50,959	3.7	10,825	1.2	12,430	1.2
13. France	56,991	4.1	31,676	3.6	29,710	2.8
14. Germany	653,121	47.5	194,648	22.1	250,828	23.7
15. Great Britain	173,012	12.6	54,744	6.2	80,129	7.6
16. Holland	21,389	1.6	2,023	0.2	4,712	0.4
17. India	34,550	2.5	28,216	3.2	18,317	1.7
18. Italy	16,825	1.2	7,650	0.9	10,786	1.0
19. Japan	4,844	0.4	8,269	0.9	16.784	1.6
20. Latvia	—	—	16,590	1.9	14,761	1.4
21. Lithuania	—	—	295	0.0	1,009	0.1
22. Mongolia	8,403	0.6	15,276	1.7	19,745	1.9
23. Norway	9,770	0.7	9,009	1.0	16,555	1.6
24. Iran	43,626	3.2	60,666	6.9	44,392	4.2
25. Poland	—	—	19,343	2.2	38,760	3.7
26. Sweden	16,920	1.2	17,133	1.9	19,539	1.8
27. Switzerland	5,240	0.4	4,092	0.5	5,639	0.5
28. Turkey	18,440	1.3	10,151	1.2	11,382	1.1
29. Tuva	—	—	1,296	0.2	917	0.1
30. United States of America	79,093	5.8	177,208	20.1	264,393	25.0
31. Western China	—	—	16,435	1.9	16,033	1.5
32. Other countries	36,082	2.6	46,071	5.3	55,867	5.3
Total U.S.S.R. imports	**1,374,982**	**100.0**	**880,632**	**100.0**	**1,058,825**	**100.0**

U.S.S.R.: By Countries

1931		1932		1933		1934		1935	
Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total	Thousands of rubles	In per cent of total
7	8	9	10	11	12	13	14	15	16
11,615	1.1	11,782	1.2	5,623	1.6	2,753	1.2	3,934	1.6
7,210	0.7	1,817	0.3	223	0.1	674	0.3	884	0.4
3,061	0.3	5,861	0.8	110	0.0	1,053	0.5	4,473	1.8
12,028	1.1	4,012	0.6	1,280	0.4	1,549	0.7	694	0.3
3,453	0.3	591	0.1	1,538	0.4	7,233	3.1	9,142	3.8
144	0.0	2,058	0.3	761	0.2	407	0.2	2,142	0.9
35,736	3.2	10,306	1.5	4,868	1.4	1,941	0.8	5,906	2.4
4,736	0.4	2,760	0.4	1,725	0.5	1,436	0.6	209	0.1
6,931	0.6	5,888	0.8	2,639	0.8	3,440	1.5	3,539	1.5
19.810	1.8	946	0.1	0	0.0	0	0.0	3	0.0
2,128	0.2	39	0.0	373	0.1	588	0.2	789	0.3
5,216	0 5	2,890	0.4	2,888	0.8	2,892	1.2	1,379	0.6
14,998	1.4	4,335	1.4	5,237	1.5	11,636	5.0	17,621	7.3
410,645	37.2	327,700	46.5	148,061	42.5	28,758	12.4	21,702	9.0
73,381	6.7	91,928	13.0	30,590	8.8	46,265	19.9	43,382	18.0
2,140	0.2	3,560	0.1	5,974	1.7	15,751	6.8	19,525	8.1
9,140	0.8	5,184	0.7	2,935	0.8	629	0.2	0	0.0
29,755	2.7	27,144	3.9	16,901	4.9	11,819	5.1	5,650	2.3
12,668	1.1	4 786	0.7	7,349	2.1	6,905	3.1	10,871	4.5
14,549	1.3	5.775	0.8	336	0.1	753	0.3	1,029	0.4
1,363	0.1	1,178	0.2	546	0.2	1,360	0.6	2,718	1.1
28,833	2.6	19,278	2.7	17,269	5.0	20,561	8.8	7,911	3.3
18,910	1.7	14.137	2.0	8,510	2.4	2,921	1.2	1,825	0.8
46,453	4.2	49,940	7.1	8,359	2.4	14,326	6.2	20,688	8.6
31,172	2.8	5,646	0.8	12,973	3.7	5,249	2.2	2,617	1.1
15,598	1.4	21,554	3.1	4,591	1.3	4,895	2.1	3,203	1.3
6,325	0.6	4,970	0.9	3,414	1.0	2,236	1.0	2,157	0.9
6,961	0.6	5,762	0.8	4,657	1.3	2,870	1.2	4,188	1.7
895	0.1	2,191	0.3	1,727	0.5	2,019	0.8	1,312	0.6
229,915	20.8	31,665	4.5	16,580	4.8	17,875	7.7	29,484	12.2
10,212	0.9	12,305	1.7	18,822	5.4	5,945	2.5	4,550	1.9
29,053	2.6	16,052	2.3	11,357	3.3	5,687	2.5	7,847	3.2
1,105,034	**100.0**	**704,040**	**100.0**	**348,216**	**100.0**	**232,426**	**100.0**	**241,374**	**100.0**

Table 10

U.S.S.R. Exports in Per Cent of Total Imports by Individual Countries

	1929	1930	1931	1932	1933	1934
A	1	2	3	4	5	6
Argentina	0.3	0.5	0.8	0.7	1.0	1.0
Australia	0.1	0.1	0.1	0.1	0.2	0.1
Austria	0.8	0.7	1.4	1.2	0.6	0.4
Belgium	0.6	1.9	2.0	2.2	3.0	2.7
British India	0.8	1.4	2.2	1.6	1.5	3.7
China	1.5	1.4	1.7	1.7	1.6	0.9
Czechoslovakia	1.3	1.9	2.4	2.0	1.8	1.5
Denmark	2.0	2.4	3.9	4.0	3.5	2.9
Egypt	1.8	1.9	1.4	2.6	2.1	2.1
Esthonia	4.2	9.3	11.3	5.7	4.5	4.3
Finland	1.7	2.5	2.8	5.1	4.7	5.2
France	1.4	1.7	1.2	1.8	2.1	2.0
Germany	3.2	4.2	4.5	5.8	4.6	4.7
Great Britain	2.1	3.2	3.6	2.6	2.4	2.4
Greece	2.1	3.4	6.7	10.1	7.6	5.0
Holland	1.5	2.5	3.8	2.8	3.0	2.6
Hungary	0.2	0.2	—	0.5	0.1	0.02
Italy	1.6	3.2	4.8	4.1	3.0	2.9
Japan	1.1	2.6	2.8	2.3	1.9	1.8
Latvia	4.7	5.9	9.3	10.1	4.0	2.9
Lithuania	4.2	4.4	6.2	6.1	5.5	4.3
Norway	0.7	2.0	2.4	3.7	2.6	2.0
Iran	29.9	28.9	40.9	31.6	17.5	—
Poland	1.3	2.0	2.5	2.2	2.1	2.2
Spain	2.6	3.4	1.0	2.8	2.4	2.6
Sweden	0.4	0.8	1.4	1.9	2.2	1.8
Switzerland	0.5	0.7	1.2	0.8	0.9	0.7
Turkey	6.4	7.2	5.7	6.9	5.2	—
United States of America	0.5	0.7	0.6	0.7	0.8	0.7

Table 11

U.S.S.R. Imports in Per Cent of Total Exports by Individual Countries

	1929	1930	1931	1932	1933	1934
A		2	3	4	5	6
Argentina	0.4	0.5	0.3	—	0.1	0.3
Australia	1.1	0.3	—	0.2	0.2	0.1
Austria	2.8	2.4	2.9	1.3	0.6	0.8
Belgium	0.3	0.3	0.2	0.2	0.4	0.8
British India	0.2	0.3	0.4	0.3	0.1	—
China	5.6	6.1	5.9	5.1	1.0	1.0
Czechoslovakia	1.3	1.9	3.7	1.6	1.3	0.4
Denmark	0.5	0.9	0.6	0.8	0.6	0.3
Egypt	4.1	5.2	5.9	0.4	—	—
Esthonia	2.4	4.5	4.6	0.4	1.9	2.5
Finland	3.3	4.5	2.2	1.5	1.9	1.6
France	0.5	0.4	0.2	0.2	0.2	0.6
Germany	2.6	3.6	7.9	10.9	5.8	1.5
Great Britain	0.5	1.2	1.9	2.5	0.9	0.9
Greece	0.1	0.3	0.6	0.4	0.6	1.4
Holland	0.1	0.3	0.3	0.6	0.7	1.1
Hungary	0.1	0.1	0.4	—	0.1	0.3
Italy	0.5	0.9	2.8	3.5	2.1	2.4
Japan	0.8	1.9	1.5	1.0	0.7	0.6
Latvia	14.6	14.1	20.2	14.7	1.5	2.2
Lithuania	0.4	1.6	3.0	3.5	1.7	5.1
Norway	2.4	4.4	7.4	5.7	3.7	1.5
Iran	9.4	10.8	15.4	7.6	5.8	—
Poland	2.9	5.3	6.7	2.7	6.2	2.6
Spain	0.7	—	0.4	0.1	0.4	0.1
Sweden	1.5	2.0	2.8	3.7	1.2	1.2
Switzerland	0.5	0.9	1.5	1.4	0.9	0.7
Turkey	3.5	5.1	3.7	5.3	4.6	—
United States of America	1.6	2.9	4.2	0.7	0.5	0.7

IX. EDUCATION, SCIENCE AND GENERAL CULTURE

1. General and Pre-School Education
2. Vocational Education and Technical Training
3. Political Education
4. Books and Publications
5. Scientific Research Institutions

1. GENERAL AND PRE-SCHOOL EDUCATION

Table 1

Growth of General Education: Primary and Secondary Schools

Year	Absolute figures				Per cent of 1914-15 (taken as 100 per cent)			
	Primary and secondary schools	Pupils			Primary and secondary schools	Pupils		
		Total for all types of schools	Including:			Total for all types of schools	Including:	
			Classes 1 to IV	Classes V to X			Classes I to IV	Classes V to X
A	1	2	3	4	5	6	7	8
1914-15	106,400	7,800,601	7,235.988	564,613	100.0	100.0	100.0	100.0
1928-29	124,429	12,074,806	10,468,410	1,606,396	116.9	154.8	144.7	284.5
1929-30	132,656	13,503,712	11.697,010	1,806,702	124.7	173.1	161.7	320.0
1930-31	152,654	17,656,232	15,609,069	2,047,163	143.5	226.3	215.7	362.6
1931-32	167,262	20,846,232	17,999,966	2,846,266	157.2	267.9	248.7	504.1
1932-33	167,254	21,813,452	18,179,431	3,634,021	157.2	279.6	251.2	643.6
1933-34	166,737	22,003,631	17,778,650	4,224,981	156.7	282.1	245.7	748.3
1934-35	162,904	23,555,807	18,410,804	5,145,003	153.1	302.0	254.4	911.2
1935-36	164,149	25,515,168	19,179.073	6,336,095	154 3	327.1	265.1	1,122.2

Note. Column 3 includes also school children above normal age for given class sent to school upon the introduction of compulsary general education. In 1933-34 many of these pupils finished school and the average age became thereafter conformable to standard, which accounts for the decline in the number of pupils at primary schools for 1933-34 (column 3).

In 1934-35 and 1935-36 the total for all types of schools (columns 2 and 6) and Classes I-IV (columns 3 and 7) includes pupils at auxiliary schools for defective children.

Data for 1935-36 are preliminary.

Table 2

Increase in Number of Schools, School Children and Teachers, 1928-1935

	Year	All types of schools for general education				Primary schools (including schools for boys and girls over standard age and pupils at special forest camp schools)¹)		Secondary preliminary schools (seven grades only)		Secondary graduating schools²) (nine or ten grades)	
		Schools	Teachers	Pupils Absolute figures	Pupils Per cent of 1928-29	Schools	Pupils	Schools	Pupils	Schools	Pupils
A	B	1	2	3	4	5	6	7	8	9	10
U. S. S. R. ³)											
Total	1928 29	124,429	363,328	12,074,806	100.0	115,499	8,898,326	7,076	2,200,078	1,854	976,402
	1929-30	132,656	391,869	13,503,712	111.8	122.883	9,951,251	7,852	2,430,256	1,921	1,122,205
	1930-31	152,654	479,839	17,656,232	146.2	139,643	13,100,283	12,353	4,169,445	658	386,504
	1931-32	167,262	569,749	20,846,232	172.6	145,450	13,772,038	21,786	7,058,104	26	16,090
	1932-33	167,254	631,257	21,813,452	180.7	138,747	12,633,604	27,297	7,913,153	1,210	1,266,695
	1933-34	166,737	655,696	22,003 631	182 2	135,411	12,035,649	28,906	7,985,010	2,420	1,982,972
	1934-35	162 904	709,378	23,555,807	195.1	128,934	11,225,401	29,905	9,153,500	4,065	3,176,906
Cities	1928-29	11,103	133,944	3,342,767	100.0	6,513	1,152,393	3,031	1,294,955	1,559	895,419
	1929-30	11,130	136,192	3,550,887	106 2	6,346	1,149,362	3,151	1,366,103	1,633	1,035,422
	1930-31	10,780	139 171	3,809,228	114 0	5,849	1,113,271	4,419	2,355,999	512	339,958
	1931-32	11,257	149,672	4,526,201	135 4	6,213	1,329,992	5,023	3,181,105	21	15,104
	1932-33	11,120	166,026	4,904,161	146.7	5,667	1,229,048	4,356	2,468,107	1,097	1,207,006
	1933-34	11,538	167,277	5,113,005	153 0	5,523	1,273,073	4,011	2,044,127	2,004	1,795,805
	1934-35	12,552	193,520	6,087,836	182 1	6,258	1,596,964	3,523	1,950,652	2,771	2,540,220
Rural districts	1928-29	113,326	229,384	8,732,039	100.0	108.986	7,745,933	4,045	905,123	295	80,983
	1929-30	121,526	255,677	9,952,825	114 0	116,537	8,801,889	4,701	1,064,153	288	86,783
	1930 31	141,874	340,668	13,847,004	158 6	133,794	11,987,012	7,934	1 813,446	146	46,546
	1931-3[illegible]	156,005	420,077	16,320,031	186.9	139,237	12,442,046	16,763	3,876,999	5	986
	1932-33	156,134	465,231	16,909,291	193.6	133,080	11,404,556	22,941	5,445,046	113	59,689
	1933-34	155,199	488,419	16,890,626	193.4	129,888	10,762,576	24,895	5,940,883	416	187,167
	1934 35	150,352	515,858	17,467,971	200.0	122,677	9,628,437	26,382	7,202,848	1,294	636,686

I. R. S. F. S. R.												
Total	1928-29	90 293	247,711	8.241,589	100.0	85.228	6,413,295	3,415	952,227	1,650	876,067
	1929-30	96,170	265.192	9,134,800	110.8	90 764	7,150,832	3,704	979,856	1,702	1,004,112
	1930-31	109,690	318,157	11.930,090	144.7	103,167	9,638,407	5,943	1,946,911	580	344,772
	1931-32	117,059	371,131	13,786.968	167.3	104.686	10,030,534	12,348	3,740,379	25	16,055
	1932-33	120,003	424.776	14,529,116	176.3	103,772	9.624,916	15,417	3,965,700	814	938,500
	1933-34	119,959	432,908	14,807,700	179.7	102,136	9,353,703	16,268	4,105,105	1,555	1,348,892
	1934-35	116,094	468,610	15,848,099	192.3	96,844	8,660,197	16,858	5,189,285	2,392	1,998,617
Cities	1928-29	7,469	92,090	2,287,593	100.0	4,677	882,226	1,417	602,324	1,375	803,043
	1929-30	7,469	93,699	2,433,495	106.4	4,585	891,065	1,446	614,924	1,438	927,506
	1930-31	7,129	92,570	2.560,679	111.9	4,249	854,478	2,432	1,402,870	448	303,331
	1931-32	7,288	100,923	3,123,091	136.5	4,279	1,025,745	2,988	2,082,242	21	15,104
	1932-33	7,702	114.540	3,405.752	148 9	4,452	1,016,152	2,477	1,469,300	773	920,300
	1933-34	8,065	114.345	3,553,739	155.3	4,435	1,070,060	2,297	1,221,701	1,333	1,261.978
	1934-35	8,838	132,957	4,262,040	186 3	5,076	1.349,995	2,006	1,209,261	1,756	1,702,784
Rural districts	1928-29	82,824	155,621	5,953,996	100.0	80,551	5,531,069	1,998	349,903	275	73,024
	1929-30	88,701	171,493	6,701,305	112 5	86,179	6,259,767	2,258	364,932	264	76,606
	1930-31	102,561	225,587	9.369,411	157.4	98.918	8,783,929	3,511	1.544,041	132	41,441
	1931-32	109,771	270.208	10,663,877	179.1	100.407	9,004,789	9,360	1.658,137	4	951
	1932-33	112,301	310,236	11,123,364	186.8	99.320	8.608,764	12,940	2,496,400	41	18,200
	1933-34	111,894	318 563	11.253.961	189.0	97.701	8.283,643	13,971	2,883,404	222	86,914
	1934 35	107,256	335,653	11,586,059	194.6	91.768	7.310,202	14,852	3,980,024	636	295,833
II. Ukrainian S. S. R. [4]											
Total	1928-29	20,388	74,878	2.550.602	100 0	17,728	1.596,855	2,660	953,747	—	—
	1929-30	21,291	81.394	2,904.325	113.9	18,312	1,793.355	2,979	1,110 970	—	—
	1930-31	23,295	103 854	3,758.363	147.4	18,589	2,053,639	4,706	1,704,724	—	—
	1931-32	24.842	124 838	4.446,017	174.3	18,500	1,934,205	6,382	2.511,812	—	—
	1932-33	21,637	125,868	4,474,608	175.4	13,365	1,330,007	8,005	2.916.441	267	228,160
	1933-34	22.059	139,508	4,377,820	171.6	12,957	1,163.658	8,522	2.773,685	580	440.477
	1934-35	21 992	153,571	4,691,429	183.9	12,227	1,066,681	8,570	2,753,828	1,195	850,920

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[1] The decline in the number of primary schools in cities and of pupils therein in 1932-33 and 1933-34 (for some Republics also in 1931-32) is due to the formation of seven-year schools out of the former primary schools; the decline of seven-year schools in cities and rural districts is due to the formation of ten-year schools out of the former seven-year schools.

[2] The decline in the number of secondary schools (nine-year and ten-year schools and former "second concentre" schools) in 1930-31 and 1931 32 is due to the reorganization of secondary schools, which took place in those years, and the formation of technicums and seven-year schools out of the former secondary schools. Since 1932 33, when a new decision of the Central Committee of the Communist Party of the Soviet Union on primary and secondary schools went into effect, the number of secondary schools has rapidly increased.

[3] Data incomplete.

[4] There were no secondary schools in the school system of the Ukrainian S.S.R. prior to 1932-33.

Table 2 (Continued)

	Year	All types of schools for general education				Primary schools (including schools for boys and girls over standard age and pupils at special forest camp schools)		Secondary preliminary schools (seven grades only)		Secondary graduating schools (nine or ten grades)	
		Schools	Teachers	Pupils							
				Absolute figures	Per cent of 1928-29	Schools	Pupils	Schools	Pupils	Schools	Pupils
A	B	1	2	3	4	5	6	7	8	9	10
Cities	1928-29	1,938	23,682	610,554	100.0	858	119.084	1,080	491,470	—	—
	1929-30	1,960	23,377	643,919	105.5	842	117,290	1,118	526,629	—	—
	1930-31	2,028	27,134	728.920	119.4	800	118,611	1,228	610,309	—	—
	1931-32	2,017	29,108	814,022	133.3	856	129,523	1,161	684.499	—	—
	1932 33	1,747	29.654	891,978	146.1	452	81,894	1,084	615,179	211	194,905
	1933-34	1,905	32,699	965,206	158.1	488	102,062	965	490,269	452	372,875
	1934-35	2,112	38,954	1,145,621	187.6	581	131,026	849	433,930	682	580,665
Rural districts	1928-29	18,450	51,196	1,940,048	100.0	16,870	1,477,771	1,580	462,277	—	—
	1929-30	19,331	58,017	2.260,406	116.5	17,470	1,676,065	1,861	584,341	—	—
	1930-31	21,267	76,720	3,029,443	156.2	17,789	1,935,028	3,478	1,094,415	—	—
	1931-32	22,865	95,730	3,631,995	187.2	17,644	1,804,682	5,221	1,827,313	—	—
	1932-33	19,890	96.214	3,582,630	184.7	12,913	1,248,113	6,921	2,301,262	56	33,255
	1933-34	20,154	106,809	3,412,614	175.9	12,469	1,061,596	7,557	2,283,416	128	67,602
	1934-35	19,880	114,617	3,545,808	182.8	11,646	955,655	7,721	2.319,898	513	270,255
III. White Russian S.S.R.											
Total	1928 29	5,718	13.292	504.473	100.0	5,346	370,751	340	119,979	32	13,743
	1929-30	6,293	15,173	596,208	118 2	5,856	443,246	404	135,831	33	17,131
	1930-31	6.668	17,013	687,099	136.2	6.080	498,251	580	184,587	8	4,261
	1931-32	6,869	19,374	778.296	154.3	5.950	507,777	919	270,519	—	—
	1932-33	6,970	22,712	854,658	169.4	5,351	423,239	1,589	408,275	30	23,144
	1933-34	7.112	25,205	857,862	170.0	5,299	380,094	1.747	437,845	66	39,923
	1934-35	7,042	26,260	894,688	177.4	5,196	364,355	1.702	439,503	144	90,830
Cities	1928-29	523	5,425	137,239	100 0	237	28.227	256	95,722	30	13,290
	1929-30	527	5,670	145,116	105.7	229	27,671	267	100,787	31	16,658
	1930-31	509	5,492	145,822	106.3	197	24,214	304	117,347	8	4,261
	1931-32	482	5,596	151,412	110.3	151	20,073	331	131,339	—	—
	1932-33	446	6,002	155,195	113.1	118	15,430	299	117,019	29	22,746
	1933-34	459	5,585	147,407	107.4	123	13,716	278	97,055	58	36,636
	1934-35	493	5,446	171,337	124.8	154	17.518	222	76,327	117	77,492

Rural districts	1928-29	5,195	7.867	367,234	100.0	5.109	342,524	84	24,257	2	453
	1929-30	5,766	9,503	451,092	122.8	5,627	415,575	137	35,044	2	473
	1930-31	6,159	11,526	541.277	147.4	5,883	474,037	276	67,240	—	—
	1931-32	6,387	13,778	626,884	170.7	5,799	487,704	588	139,180	—	—
	1932-33	6,524	16,710	699,463	190.5	5,233	407,809	1,290	291,256	1	398
	1933-34	6,653	19,620	710,455	193.5	5,176	366.378	1,469	340,790	8	3,287
	1934-35	6,549	20,814	723,351	197.0	5,042	346,837	1,480	363,176	27	13,338
IV. Transcaucasian S.F.S.R.											
Total	1928-29	4,993	19,583	570,714	100.0	4,307	365,193	560	144,584	126	60,937
	1929-30	5,273	20,843	622,466	109.1	4,498	381,734	645	172,019	130	68,713
	1930-31	6,473	25,560	788,000	138.1	5,514	501,902	896	255,161	63	30,937
	1931-32	8,402	29,735	999,098	175.1	6,572	574,723	1.829	424,340	1	35
	1932-33	8,464	32,164	1,114,592[1])	195.3	6,467	536,905	1,916	518,105	81	59,582
	1933-34	8,339	33,139	1,148,304	201.2	6,184	465,792	1,985	564,941	170	117,571
	1934-35	8.378	34,990	1,258,958	220 6	5,805	441,564	2,300	624,635	273	192,759
Cities	1928-29	613	8,399	200,237	100.0	307	67,991	197	78,462	109	53,784
	1929-30	608	8.612	212,282	106.0	268	57,084	230	95,733	110	59,465
	1930-31	538	8,713	218,887	109.3	169	36.416	320	156,639	49	25,832
	1931-32	668	8,379	242,595	121.2	285	57,858	383	184,737	—	—
	1932-33	583	9,185	270,467	135.1	182	28,993	335	189,728	66	51,746
	1933-34	562	9,436	275,896	137.8	138	24,822	311	162,176	113	88,898
	1934-35	598	10,424	323,684	161.7	171	38.037	268	148,023	159	137,624
Rural districts	1928-29	4,380	11,184	370,477	100.0	4,000	297.202	363	66,122	17	7.153
	1929-30	4,665	12,231	410,184	110.7	4.230	324,650	415	76,286	20	9.248
	1930-31	5.935	16,847	569,113	153.6	5,345	465,486	576	98,522	14	5,105
	1931-32	7,734	21,356	756,503	204.2	6,287	516,865	1,446	239,603	1	35
	1932-33	7,881	22,979	814,125	227.8	6,285	507,912	1,581	328,377	15	7,836
	1933-34	7,777	23.703	872.408	235.5	6,046	440,970	1,674	402,765	57	28,673
	1934-35	7,780	2,4566	935,274	252.5	5,634	403,527	2,032	476,612	114	55,135
1. **Azerbaidjan S.S.R.**											
Total	1928-29	1,583	6,083	189,458	100.0	1,432	139,566	117	37,189	34	12,703
	1929-30	1,687	6,564	213,695	112.8	1,477	139.683	173	58,685	37	15,327
	1930-31	1,988	7,984	265,995	140.4	1.723	163,811	243	89.174	22	13,010
	1931-32	2,423	8.833	365,177	192.7	1,670	157,732	753	207,445	—	—
	1932-33	2,902	10,504	432,776	228.4	2,143	193.399	746	230,340	13	9,037
	1933-34	3,222	11,456	447,728	236.2	2,369	191,304[2])	818	224,903	35	31,521
	1934-35	3 178	11,864	483,432	255.2	2,184	190,947	943	244,983	51	47,502

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[1]) In addition to these figures, there were in the Azerbaidjan S.S.R. 5,681 pupils in special classes for boys and girls over normal school age.

[2]) Including 4,560 pupils of both primary and preliminary secondary schools, who could not be classified according to type of school.

Table 2 (Continued)

	Year	All types of schools for general education				Primary schools (including schools for boys and girls over standard age and pupils at special forest camp schools)		Secondary preliminary schools (seven grades only)		Secondary graduating schools (nine or ten grades)	
		Schools	Teachers	Pupils: Absolute figures	Pupils: Per cent of 1928-29	Schools	Pupils	Schools	Pupils	Schools	Pupils
A	B	1	2	3	4	5	6	7	8	9	10
Cities	1928-29	245	3,078	80,374	100.0	156	39,755	58	28,414	31	12,205
	1929-30	235	3,054	85,508	106.4	120	29,612	85	43,144	30	12,752
	1930-31	184	3,060	89,353	111.2	56	13,116	111	65,966	17	10,271
	1931-32	161	2,626	97,470	121.3	33	7,440	128	90,030	—	—
	1932-33	183	3,189	115,357	143.5	45	12,296	128	95,396	10	7,665
	1933-34	193	3,201	112,515	140.0	48	13,566	120	72,227	25	26,722
	1934-35	208	3,726	134,917	167.9	57	23,208	114	70,643	37	41,066
Rural districts	1928-29	1,338	3,005	109,084	100.0	1,276	99,811	59	8,775	3	498
	1929-30	1,452	3,510	128,187	117.5	1,357	110,071	88	15,541	7	2,575
	1930-31	1,804	4,924	176,642	161.9	1,667	150,695	132	23,208	5	2,739
	1931-32	2,262	6,207	267,707	245.4	1,637	150,292	625	117,415	—	—
	1932-33	2,719	7,315	317,419	291.0	2,098	181,103	618	134,944	3	1,372
	1933-34	3,029	8,255	335,213	307.3	2,321	177,738	698	152,676	10	4,799
	1934-35	2,970	8,138	348,515	319.5	2,127	167,739	829	174,340	14	6,436
2. Armenian S.S.R. **Total**	1928-29	845	2,769	86,199	100.0	773	69,717	62	12,715	10	3,767
	1929-30	899	3,084	94,953	110.2	811	75,462	78	14,849	10	4,642
	1930-31	1,039	3,775	137,392	159.4	904	105,118	135	32,274	—	—
	1931-32	1,066	4,123	161,937	187.9	820	68,084	246	93,853	—	—
	1932-33	1,096	4,469	179,036	207.7	782	62,814	302	104,656	12	11,566
	1933-34	1,118	4,658	174,922	202.9	750	53,652	326	99,611	42	21,659
	1934-35	1,131	5,135	194,518	225.7	655	41,543	408	109,989	68	42,986
Cities	1928-29	85	993	24,130	100.0	47	10,971	28	9,392	10	3,767
	1929-30	92	1,121	25,401	105.3	48	10,464	34	10,295	10	4,642
	1930-31	79	1,106	28,663	118.8	35	10,000	44	18,663	—	—
	1931-32	62	1,054	30,017	124.4	20	2,734	42	27,283	—	—
	1932-33	81	1,154	34,575	143.3	32	3,804	41	21,775	8	8,996
	1933-34	88	1,283	37,760	156.5	24	2,307	41	22,585	23	12,868
	1934-35	97	1,417	46,804	194.0	38	3,631	29	19,374	30	23,799

Rural districts	1928-29	760	1,776	62,069	100.0	726	58,746	34	3,323	—	—
	1929-30	807	1,963	69,552	112.6	763	64,998	44	4,554	—	—
	1930-31	960	2,669	108,729	175.2	869	95,118	91	13,611	—	—
	1931-32	1,004	3,069	131,920	212.5	800	65,350	204	66,570	—	—
	1932-33	1,015	3,315	144,461	232.7	750	59,010	261	82,881	4	2,570
	1933-34	1,030	3,375	137,162	220.9	726	51,345	285	77,026	19	8,791
	1934 35	1,034	3,718	147,714	238.0	617	37,912	379	90,615	38	19,187
3. Georgian S.S.R. **Total**	1928-29	2,565	10,731	295,057	100.0	2,102	155,910	381	94,680	82	44,467
	1929-30	2,687	11,195	313,818	106.4	2,210	166,589	394	98,485	83	48,744
	1930-31	3,446	13,801	384,613	130.4	2,887	232,973	518	133,713	41	17,927
	1931-32	4,913	16,779	471,984	160.0	4,082	348,907	830	123,042	1	35
	1932-33	4,466	17,191	502,780	170.4	3,542	280,692	868	183,109	56	38,979
	1933-34	3,999	17,025	525,654	178.2	3,065	220,836	841	240,427	93	64,391
	1934-35	4,069	17,991	581,008	196.9	2,966	209,074	949	269,663	154	102,271
Cities	1928-29	283	4,328	95,733	100.0	104	17,265	111	40,656	68	37,812
	1929-30	281	4,437	101,373	105.9	100	17,008	111	42,294	70	42,071
	1930-31	275	4,547	100,871	105.4	78	13,300	165	72,010	32	15,561
	1931-32	445	4,699	115,103	120.3	232	47,684	213	67,424	—	—
	1932-33	319	4,842	120,535	125.9	105	12,893	166	72,557	48	35,085
	1933-34	281	4,952	125,621	131.2	66	8,949	150	67,364	65	49,308
	1934-35	293	5,281	141,963	148.3	76	11,198	125	58,006	92	72,759
Rural districts	1928-29	2,282	6,403	199,324	100.0	1,998	138,645	270	54,024	14	6,655
	1929-30	2,406	6,758	212,445	106.6	2,110	149,581	283	56,191	13	6,673
	1930-31	3,171	9,254	283,742	142.4	2,809	219,673	353	61,703	9	2,366
	1931-32	4,468	12,080	356,876	179.0	3,850	301,223	617	55,618	1	35
	1932-33	4,147	12,349	382,245	191.8	3,437	267,799	702	110,552	8	3,894
	1933-34	3,718	12,073	400,033	200.7	2,999	211,887	691	173,063	28	15,083
	1934-35	3,776	12,710	439,045	220.3	2,890	197,876	824	211,657	62	29,512
V. Uzbek S.S.R. and Tadjik S.S.R. **Total**	1928-29	2,475	6,436	171,058	100.0	2,350	126,729	84	22,359	41	21,970
	1929-30	2,986	7,595	197,218	115.3	2,838	146,729	98	23,032	50	27,457
	1930-31	5,590	13,023	424,394	248.1	5,398	354,604	185	63,256	7	6,534
	1931-32	8,045	21,264	732,554	428.3	7,824	642,708	221	89,846	—	—
	1932-33	8,175	22,330	737,042	430.9	7,874	636,446	287	86,098	14	14,498
	1933-34	7,732	20,974	695,610	407.7	7,358	577,233	334	89,665	40	28,712
	1934-35	7,647	21,282	723,739	423.1	7,190	565,898	410	123,709	47	34,132
Cities	1928-29	470	3,518	87,108	100.0	366	45,696	64	19,795	40	21,617
	1929-30	463	3,920	90,344	103.7	345	43,443	70	19,900	48	27,001
	1930-31	508	4,479	133,387	153.1	391	71,656	110	55,197	7	6,534
	1931-32	726	4,898	171,712	197.1	599	91,991	127	79,721	—	—
	1932 33	566	5,877	157,263	180.5	420	81,777	132	60,988	14	14,498
	1933-34	476	4,328	146,691	168.4	307	57,635	130	61,035	39	28,021
	1934-35	441	4,812	157,099	180.3	249	54,346	149	70,746	43	32,007

Table 2 (Continued)

	Year	All types of schools for general education				Primary schools (including schools for boys and girls over standard age and pupils at special forest camp schools)		Secondary preliminary schools (seven grades only)		Secondary graduating schools (nine or ten grades)	
		Schools	Teachers	Pupils							
				Absolute figures	Per cent of 1928-29	Schools	Pupils	Schools	Pupils	Schools	Pupils
A	B	1	2	3	4	5	6	7	8	9	10
Rural districts	1928-29	2,005	2,918	83,950	100.0	1,984	81,033	20	2,564	1	353
	1929-30	2,523	3,675	106,874	127.3	2,493	103,286	28	3,132	2	456
	1930-31	5,082	8,544	291,007	346.6	5,007	282,948	75	8,059	—	—
	1931-32	7,319	16,366	560,842	668.0	7,225	550,717	94	10,125	—	—
	1932-33	7,609	16,453	579,779	690.6	7,454	554,669	155	25,110	—	—
	1933-34	7,256	16,646	548,919	653.9	7,051	519,598	204	28,630	1	691
	1934-35	7,206	16,470	566,640	675.0	6,941	511,552	261	52,963	4	2,125
VI. Turkmenian S.S.R.											
Total	1928-29	562	1,428	36,370	100.0	540	25,503	17	7,182	5	3,685
	1929-30	643	1,672	48,695	133.9	615	35,355	22	8,548	6	4,792
	1930-31	938	2,232	68,286	187.8	895	53,480	43	14,806	—	—
	1931-32	2,005	3,407	103,299	284.0	1,918	82,091	87	21,208	—	—
	1932-33[1])	2,005	3,407	103,436	284.4	1,918	82,091	83	18,534	4	2,811
	1933-34	1,536	3,962	116,335	319.9	1,477	95,169	50	13,769	9	7,397
	1934-35	1,751	4,665	138,894	381.9	1,672	106,706	65	22,540	14	9,648
Cities	1928-29	90	830	20,036	100.0	68	9,169	17	7,182	5	3,685
	1929-30	103	914	25,731	128.4	77	12,809	20	8,130	6	4,792
	1930-31	68	783	21,533	107.5	43	7,896	25	13,637	—	—
	1931-32	76	768	23,369	116.6	43	4,802	33	18,567	—	—
	1932-33	76	768	23,506	117.3	43	4,802	29	15,893	4	2,811
	1933-34	71	884	24,066	120.1	32	4,778	30	11,891	9	7,397
	1934-35	70	927	28,055	140.0	27	6,042	29	12,365	14	9,648
Rural districts	1928-29	472	598	16,334	100.0	472	16,334	—	—	—	—
	1929-30	540	758	22,964	140.6	538	22,546	2	418	—	—
	1930-31	870	1,449	46,753	286.2	852	45,584	18	1,169	—	—
	1931-32	1,929	2,639	79,930	489.4	1,875	77,289	54	2,641	—	—
	1932-33	1,929	2,639	79,930	489.4	1,875	77,289	54	2,641	—	—
	1933-34	1,465	3,078	92,269	564.9	1,445	90,391	20	1,878	—	—
	1934-35	1,681	3,738	110,839	678.6	1,645	100,664	36	10,175	—	—

Uzbek S.S.R. and Tadjik S.S.R. (Separate figures)												
Uzbek S. S. R., total	1929-30	2,471	6,802	175,750	100.0	2,330	126,248	93	22,411	48	27,091
	1930-31	4,613	11.129	363.331	206.7	4.440	298,327	166	58.470	7	6,534
	1931-32	6,531	18,715	642,093	365.4	6.329	557,033	202	85,060	—	—
	1932-33	5,855	18,524	611,853	354.3	5,583	520,090	260	78,887	12	12,876
	1933-34	5.314	17,004	570,228	324.5	4,986	459,106	293	85.025	35	26,097
	1934-35	4.958	16,790	585,898	333.4	4,535	438,907	383	117,559	40	29,432
Cities	1929-30	418	3.780	86,990	100.0	304	41,007	68	19,348	46	26,635
	1930-31	459	4,151	120.181	138.1	350	62,994	102	50,653	7	6,534
	1931-32	682	4.551	158,295	182.0	563	83.118	119	75,177	—	—
	1932-33	497	5,434	141,997	163.2	357	71.107	128	58,014	12	12,876
	1933-34	388	3,880	132.370	152.2	229	47,324	125	59,640	34	25,406
	1934-35	374	4,311	141,253	162.4	195	44,810	140	67.794	39	28,649
Rural districts	1929-30	2,053	3,022	88,760	100.0	2,026	85.241	25	3,063	2	456
	1930-31	4.154	6,978	243.150	273.9	4.090	235,333	64	7,817	—	—
	1931-32	5.849	14,164	483.798	545.0	5,766	473,915	83	9,883	—	—
	1932-33	5,358	13,090	469,856	529.3	5.226	448,983	132	20,873	—	—
	1933-34	4,926	13,124	437,858	493.3	4.757	411,782	168	25.385	1	691
	1934-35	4.584	12,479	444,645	501.0	4,340	394,097	243	49,765	1	783
Tadjik S.S.R., total	1929-30	515	793	21,468	100.0	508	20.481	5	621	2	366
	1930-31	977	1,894	61.063	284.4	958	56.277	19	4,786	—	—
	1931-32	1.514	2,549	90.461	421.4	1,495	85,675	19	4,786	—	—
	1932-33	2,320	3,806	125,189	583.1	2.291	116,356	27	7,211	2	1,622
	1933-34	2.418	3,970	125,382	584.0	2,372	118,127	41	4,640	5	2.615
	1934-35	2,689	4,492	137.841	642.1	2,655	126,991	27	6,150	7	4,700
Cities	1929-30	45	140	3,354	100.0	41	2,436	2	552	2	366
	1930-31	49	328	13,206	393.7	41	8,662	8	4,544	—	—
	1931-32	44	347	13,417	400.0	36	8,873	8	4,544	—	—
	1932-33	69	443	15,266	455.2	63	10.670	4	2,974	2	1,622
	1933-34	88	448	14.321	427.0	78	10,311	5	1.395	5	2,615
	1934-35	67	501	15,846	472.5	54	9,536	9	2,952	4	3,358
Rural districts	1929-30	470	653	18.114	100.0	467	18,045	3	69	—	—
	1930-31	928	1,566	47.857	264.2	917	47,615	11	242	—	—
	1931-32	1.470	2.202	77,044	425.3	1.459	76,802	11	242	—	—
	1932-33	2.251	3.363	109,923	606.8	2.228	105,686	23	4.237	—	—
	1933-34	2,330	3,522	111,061	613.1	2,294	107,816	36	3.245	—	—
	1934-35	2.622	3,991	121,995	673.5	2.601	117,455	18	3,198	3	1,342

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1) Data for 1931-32 are repeated in 1932-33, no information being available for 1932-33.

Table 3

Pre-School Education Institutions (Kindergartens)

Republics	Year	Total				Cities			Rural districts		
		Absolute figures		Per cent of 1928-29		Absolute figures		Number of children in per cent of 1928-1929	Absolute figures		Number of children in per cent of 1928-1929
		Institutions	Number of children	Institutions	Number of children	Institutions	Number of children		Institutions	Number of children	
A	B	1	2	3	4	5	6	7	8	9	10
U. S. S. R.	1928-29	2,517	129,259	100.0	100.0	2.215	118,342	100.0	302	10,917	100.0
	1930-31[1])	6,574	366,236	261.2	283.3	5,289	309,110	261.2	1,285	57,126	523.5
	1934-35[2])	25,700	1,181,255	1,021.1	913.9	11,773	688,765	582 0	13,927	492,490	4,511.2
I. R. S. F. S. R.	1928-29	1,622	85,882	100.0	100.0	1,419	78.757	100.0	203	7,125	100.0
	1930-31	4,448	244,236	274.2	284.4	3,611	206,369	262.0	837	37,867	531.5
	1934-35	17,860	811,492	1,101.1	944.9	8,620	492,477	625.3	9,240	319,015	4,477.4
II. Ukrainian S. S. R.	1928-29	431	17,260	100.0	100.0	418	16,815	100.0	13	445	100.0
	1930-31	1,021	56,148	236.9	325.3	895	51,662	307.2	126	4,486	1,008.1
	1934-35	3,347	155,354	776.6	900.1	1,620	90,945	540.9	1,727	64,409	14,473.9
III. White Russian S. S. R.	1928-29	96	4,738	100.0	100.0	89	4,491	100.0	7	247	100.0
	1930-31	240	13,151	250.0	277.6	207	12,177	271.1	33	974	394.3
	1934-35	919	39,544	957.3	834.6	424	24.651	548.9	495	14,893	6,029.6

IV. **Transcaucasian S. F. S. R.**	1928-29	248	14,474	100.0	100.0	189	12,160	100.0	59	2,314	100.0
	1930-31	658	38,988	265.3	269.4	416	27,304	224.5	242	11,684	504.9
	1934-35	2,489	127,010	1,003.6	877.5	707	55,864	459.4	1,782	71,146	3,074.6
1. Azerbaidjan S.S.R.	1928-29	97	3,450	100.0	100.0	80	3,002	100.0	17	448	100.0
	1930-31	225	11,823	247.3	342.7	163	7,973	265.6	62	3,850	859.4
	1934-35	1,345	63,273	1,386.6	1,834.0	282	20,693	689.3	1,063	42,580	9,504.5
2. Armenian S.S.R.	1928-29	57	3,781	100.0	100.0	38	3,096	100.0	19	685	100.0
	1930-31	136	8,475	238.6	224.1	66	5,798	187.3	70	2,677	390.8
	1934-35	496	23,116	870.1	611.4	158	10,307	332.6	338	12,809	1,869.9
3. Georgian S.S.R.	1928-29	94	7,243	100.0	100.0	71	6,062	100.0	23	1,181	100.0
	1930-31	297	18,690	316.0	258.0	187	13,533	223.2	110	5,157	436.7
	1934-35	648	40,621	689.4	560.8	267	24,864	410.2	381	15,757	1,334.2
V. **Uzbek S. S. R.**	1928-29[3]	70	3,904	100.0	100.0	66	3,774	100.0	4	130	100.0
	1930-31	125	8,045	178.6	206.1	104	7,152	189.5	21	893	686.9
	1934-35	759	33,550	1,084.3	859.4	281	17,072	452.4	478	16,478	12,675.4
VI. **Turkmenian S. S. R.**	1928-29	50	3,001	100.0	100.0	34	2,345	100.0	16	656	100.0
	1930-31	74	5,284	148.0	176.1	48	4,062	173.2	26	1,222	186.3
	1934-35	280	12,525	560.0	417.4	100	6,826	291.1	180	5,699	868.7
VII. **Tadjik S. S. R.**	1928-29	Included together with Uzbek S. S. R.									
	1930-31	8	384	100.0	100.0	8	384	100.0	—	—	—
	1934-35	46	1,780	575.0	463.5	21	930	242.2	25	850	—

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[1] Returns for 1930-31 are exclusive of three districts of the Far Eastern Territory and of Kara-Kalpak A.S.S.R.

[2] In 1934-35 data for the Ukrainian S.S.R. include only 98.9 per cent of the total number of Regions; Turkmenian S.S.R. includes 33 Regions; Uzbek S.S.R. is exclusive of 2 Regions; Tadjik S.S.R. is exclusive of 3 Regions.

[3] 1928-29 figures for Tadjik S.S.R. are included in returns for the Uzbek S.S.R.

Table 1

2. VOCATIONAL EDUCATION: TRAINING OF TECHNICAL PERSONNEL

Number of Vocational Institutions and Enrolled Students

(As at beginning of respective year)

Institutions	Indices	Absolute figures						Per cent of 1928			
		1915	1928	1931	1932	1933	1936 [1]	1931	1932	1933	1936 [1]
A	B	1	2	3	4	5	6	7	8	9	10
I. Universities and engineering colleges	Number of institutions	91	129	537	645	723	592	416.3	500.0	558.9	458.9
	Number of students (in thousands)	124.7	159.8	272.1	394.0	469.8	515.9	170.3	246.6	294.0	322.8
II. Technical high schools (technicums)	Number of institutions	233	1.650	2.932	3,096	3,522	2,563	177.7	187.6	213.5	155.3
	Number of students (in thousands)	48.0	253.6	593.7	754.1	797.0	698.1	234.1	297.4	314.3	275.3
III. Factory schools	Number of institutions	2,644	1,814	3.265	3,970	3,900	1,712	180.0	218.9	215.0	94.4
	Number of students (in thousands)	219.0	178.3	584.7	975.0	958.9	288.0	327.9	546.8	537.8	161.5
IV. Workers' Faculties	Number of institutions	—	147	694	872	926	772	472.1	593.2	629.9	525.1
	Number of students (in thousands)	—	49.2	231.9	319.5	352.7	276.0	471.3	649.4	716.9	560.9
V. Communist Universities and Communist Higher Agricultural Schools	Number of institutions	—	19	49	53	76	79	257.9	278.9	400.0	415.8
	Number of students (in thousands)	—	8.4	18.9	30.5	31.0	42.2	225.0	363.1	369.0	502.4
VI. Soviet and Communist Party Day Schools	Number of institutions	—	100	108	163	230	279 [2]	108.0	163.0	230.0	279.0
	Number of students (in thousands)		17.0	23.8	33.6	40.0	37.6	140.0	197.6	235.3	221.2

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[1] Preliminary data.

[2] As at January 1, 1935.

Table 2

Composition of Student Body at Higher Schools of All Types, Technical Schools ("Technicums") and Workers' Faculties: By Sex

(As at beginning of respective year)

Educational Institutions: By Branches of National Economy	Per cent of women				
	1928	1931	1933	1934	1935
A	1	2	3	4	5
I. Universities	28.1	28.3	33.3	36.5	38.0
1. Industrial and building construction	13.4	15.5	19.8	22.4	23.3
2. Agricultural	17.4	25.4	30.6	32.1	31.8
3. Social-economic	21.1	24.8	34.9	36.0	39.0
4. Pedagogical	48.7	44.4	49.3	50.2	48.4
5. Medical	52.0	58.0	71.4	75.1	71.2
II. "Technicums"	37.6	38.8	41.7	43.9	44.1
1. Industrial and building construction	9.5	25.8	28.5	30.1	29.6
2. Agricultural	15.4	31.0	33.3	30.1	31.6
3. Social-economic	36.3	48.2	51.9	54.5	54.6
4. Pedagogical	53.5	51.9	54.1	54.6	55.2
5. Medical	89.3	87.3	85.6	80.7	79.7
III. Workers' Faculties	15.6	24.8	34.0	36.9	36.6

Table 3

Composition of Student Body at Higher Schools of All Types, Technical Schools ("Technicums") and Factory Schools: By Nationalities

Nationalities	Factory schools		"Technicums"			Universities		
	As at Jan. 1, 1928	As at Jan. 1, 1933	As at Jan. 1, 1928	As at Jan. 1, 1933	As at Jan. 1, 1935	As at Jan. 1, 1929	As at Jan. 1, 1933	As at Jan. 1, 1935
	Per cent of total number of students							
A	1	2	3	4	5	6	7	8
1. Russian	74.4	66.4	55.6	58.0	55.8	56.1	56.0	54.4
2. Ukrainian	10.9	17.7	11.2	15.8	18.1	14.6	15.5	14.3
3. White Russian	0.9	2.5	2.4	2.5	3.2	2.9	2.7	3.0
4. Kazakh	0.2	1.1	1.3	0.6	0.8	0.2	0.3	0.4
5. Uzbek	0.5	0.4	1.9	1.4	0.6	0.3	0.9	0.5
6. Tatar	0.9	1.7	3.3	1.8	2.0	0.8	1.4	1.3
7. Jewish	6.5	4.2	8.2	5.8	4.9	13.5	12.2	13.3
8. Georgian	0.9	0.9	3.0	3.5	3.5	2.4	2.7	3.5
9. Tiurk	0.5	0.6	3.0	1.4	1.9	1.1	1.5	1.3
10. Armenian	1.0	1.2	1.9	1.8	2.0	2.0	2.0	2.3
11. Mordovian	0.05	0.2	no data	0.5	0.4	0.2	0.3	0.3
12. German	0.3	0.3	0.7	0.7	0.7	0.5	0.5	0.7
13. Chuvash	0.3	0.2	0.9	0.7	0.8	0.5	0.5	0.5
14. Tadjik	0.05	0.1	0.2	0.4	0.3	0.05	0.1	0.1
15. Bashkir	0.2	0.3	0.5	0.4	0.4	0.1	0.2	0.2
16. Polish	0.9	0.4	0.8	0.6	0.5	0.6	0.8	0.7
17. Turkmenian	0.1	0.1	0.3	0.6	0.3	0.05	0.1	0.1
18. Other	1.4	1.7	4.8	3.5	3.8	4.1	2.3	3.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

3. POLITICO-CULTURAL INSTITUTIONS
("Political Education")

Table 1

Growth in Number of Clubs and Other Cultural Institutions, 1928-1935

Republics	Year	Institutions						
		Village libraries and reading rooms [1])	"Houses of Socialist Culture"	Clubs, "People's Palaces" and "Palaces of Culture"				Total clubs and other cultural institutions
				Belonging to Trade Unions	Belonging to Collective Farms	Other	Total	
A	B	1	2	3	4	5	6	7
U. S. S. R.	1928-29	21,316	—	3,857	—	2,552	6,409	27,725
	1931-32	33,021	729	4,739	—	7,781	12,520	46,270
	1932-33	34,214	1,772	4,677	5,240	3,387	13,304	49,290
	1934-35	29,144 [1])	1,652	6,994	16.958	4,278	28,230	59,026
I. R. S. F. S. R.	1928-29	13,693	—	no	data	available	4,432	18,125
	1931-32	24,079	679	3,368	—	5,220	8,588	33,346
	1932-33	24,533	373	3,395	2,573	2,828	8,796	33,702
	1934-35	21,366	1,307	4.731	7,495	2,797	15,023	37,696
II. Ukrainian S. S. R.	1928-29	5,709	—	no	data	available	1,131	6,840
	1931-32	5,553	—	889	—	1,606	2,495	8,048
	1932-33	4,703	699	889	2,543	—	3,432	8,834
	1934-35	1,686	186	1,527	8,913	688	11,128	13,000
III. White Russian S. S. R.	1928-29	461	—	no	data	available	266	727
	1931-32	844	10	133	—	451	584	1,438
	1932-33	382	605	130	13	65	208	1,195
	1934-35	1,185	78	302	no data available	61	363	1,626
IV. Transcaucasian S. F. S. R.	1928-29	801	—	no	data	available	270	1,071
	1931-32	1,349	7	196	—	339	535	1,891
	1932-33	1,461	7	183	71	308	562	2,030
	1934-35	1,408	13	192	372	308	872	2,293

1. Azerbaidjan S.S.R.	1928-29	143	—	no	data	available	138	281
	1931-32	347	—	60	—	197	257	604
	1932-33	388	4	48	38	205	291	683
	1934-35	309	6	42	163	156	361	676
2. Armenian S.S.R.	1928-29	163	—	no	data	available	35	198
	1931-32	358	—	40	—	21	61	419
	1932-33	358	—	39	6	16	61	419
	1934-35	244	—	63	176	16	255	499
3. Georgian S.S.R.	1928-29	495	—	no	data	available	97	592
	1931-32	644	7	96	—	121	217	868
	1932-33	715	3	17	27	87	210	928
	1934-35	855	7	87	33	136	256	1,118
V. Uzbek S. S. R.	1928-29	554	—	no	data	available	248	802
	1931-32	942	30	90	—	146	236	1,208
	1932-33	2,806	82	17	34	147	198	3,086
	1934-35	2,836	65	139	141	272	552	3,453
VI. Turkmenian S. S. R.	1928-29	77	—	no	data	available	51	128
	1931-32	165	3	46	—	5	51	219
	1932-33	28	6	46	3	8	57	91
	1934-35	365	3	62	28	46	136	504
VII. Tadjik S. S R.	1928-29	21	—	no	data	available	11	32
	1931-32	89	—	17	—	14	31	120
	1932-33	301	—	17	3	31	51	352
	1934-35	298	—	41	9	106	156	454

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[1]) The decrease in the number of village libraries and reading rooms is due on the one hand to renaming some of these as "red corners" and, on the other hand, the expansion of others to the category of "clubs".

Permanent and Travelling Motion Picture Theatres (Cinemas): By Republics

(1928, 1931, 1934, 1935)

Republics	Date	Total permanent and travelling motion picture theatres			Permanent motion picture theatres			Travelling motion picture theatres		
		In cities and towns	In rural districts	Total	In cities and towns	In rural districts	Total	In cities and towns	In rural districts	Total
A	B	1	2	3	4	5	6	7	8	9
U. S. S. R.	Oct. 1, 1928	5,706	4,050	9,756	5,485	1,721	7,206	221	2,329	2,550
	July 1, 1931	8,854	16,739	25,593	8,202	4,318	12,520	652	12,421	13,073
	Jan. 1, 1934	9,953	17,565	27,518	8,463	4,262	12,725	1,490	13,303	14,793
	Jan. 1, 1935	9,820	18,043	27,863	8,859	4,433	13,292	961	13,610	14,571
I. R. S. F. S. R.	Oct. 1, 1928	3,986	2,752	6,738	3,795	714	4,509	191	2,038	2,229
	July 1, 1931	6,314	12,006	18,320	5,854	2,437	8,281	470	9,569	10,039
	Jan. 1, 1934	7,281	12,378	19,659	6,107	2,428	8,535	1,174	9,950	11,124
	Jan. 1, 1935	6,946	12,711	19,657	6,151	2,534	8,685	795	10,177	10,972
II. Ukrainian S. S. R.	Oct. 1, 1928	1,168	968	2,136	1,168	950	2,118	—	18	18
	July 1, 1931	1,670	3,666	5,336	1,568	1,748	3,316	102	1,918	2,020
	Jan. 1, 1934	1,425	3,613	5,038	1,308	1,515	2,823	117	2,098	2,215
	Jan. 1, 1935	1,536	3,715	5,251	1,426	1,420	2,846	110	2,295	2,405

III. **White Russian** S. S. R.	Oct. 1, 1928	160	216	376	160	46	206	—	170	170
	July 1, 1931	274	333	607	242	31	273	32	302	334
	Jan. 1, 1934	352	542	894	271	28	299	81	514	595
	Jan. 1, 1935	407	654	1,061	393	115	508	14	539	553
IV. **Transcaucasian** S. F. S. R.	Oct. 1, 1928	269	78	347	253	11	264	16	67	83
	July 1, 1931	354	405	759	332	77	409	22	328	350
	Jan. 1, 1934	548	582	1,130	437	153	590	111	429	540
	Jan. 1, 1935	615	530	1,145	573	187	760	42	343	385
1. Azerbaidjan S.S.R.	Oct 1, 1928	134	44	178	123	11	134	11	33	44
	July 1, 1931	166	156	322	163	32	195	3	124	127
	Jan. 1, 1934	245	228	473	141	68	209	104	160	264
	Jan. 1, 1935	287	213	500	264	82	346	23	131	154
2. Armenian S.S.R.	Oct. 1, 1928	24	12	36	22	—	22	2	12	14
	July 1, 1931	35	98	133	35	20	55	—	78	78
	Jan. 1, 1934	81	99	180	80	24	104	1	75	76
	Jan. 1, 1935	53	101	154	45	54	99	8	47	55
3. Georgian S.S.R.	Oct. 1, 1928	111	22	133	108	—	108	3	22	25
	July 1, 1931	153	151	304	134	25	159	19	126	145
	Jan. 1, 1934	222	255	477	216	61	277	6	194	200
	Jan. 1, 1935	275	216	491	264	51	315	11	165	176
V. **Uzbek** S. S. R.	Oct. 1, 1928	87	24	111	79	—	79	8	24	32
	July 1, 1931	147	220	367	142	21	163	5	199	204
	Jan. 1, 1934	250	262	512	250	83	333	—	179	179
	Jan. 1, 1935	160	286	446	160	144	304	—	142	142
VI. **Turkmenian** S. S. R.	Oct 1, 1928	36	12	48	30	—	30	6	12	18
	July 1, 1931	68	56	124	50	1	51	18	55	73
	Jan. 1, 1934	60	88	148	53	—	53	7	88	95
	Jan. 1, 1935	106	105	211	106	10	116	—	95	95
VII. **Tadjik** S. S. R.	July 1, 1931	27	53	80	24	3	27	3	50	53
	Jan. 1, 1934	37	100	137	37	55	92	—	45	45
	Jan. 1, 1935	50	42	92	50	23	73	—	19	19

4. BOOKS AND PUBLICATIONS

Table 1

Book Production in the U. S. S. R.

(Exclusive of magazines, special publications, monographs and papers of learned societies)

Year	Number of titles	Number of signatures in all publications (in thousands)	Average impression per title (copies)	Average number of signatures per title (Col. 2 : Col. 1)
A	1	2	3	4
Absolute Figures				
1913 [1]	28,132	—	4,031	—
1928	34,212	1.407,849	7,796	41,151
1932	49,880	2,374,940	10,391	47,613
1933 [2]	43,587	2,385,445	11,196	54,728
1934	43,939	2,768,202	10,782	63,001
Per Cent of 1913				
1928	121.6	—	193.4	—
1932	177.3	—	257.8	—
1933	154.9	—	277.7	—
1934	156.2	—	267.5	—
Per Cent of 1928				
1932	145.8	168.7	133.3	115.7
1933	127.4	169.4	143.6	133.0
1934	128.4	196.6	138.3	153.1

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[1] Data for 1913 cover the present territory of the U.S.S.R.

[2] The decline in the number of titles in 1933 is due to the trend toward higher quality of literature published and larger single publications, instead of large numbers of small volumes, as is shown by the increase in size of the average printed volume (see Column 4).

Table 2

Types of Books Published: By Purport [1]

(As of 1932 and 1934)

Types of Publications	Absolute figures				Per cent of total			
	Number of titles		Number of signatures in all publications (in thousands)		Number of titles		Number of signatures in all publications	
	1932	1934	1932	1934	1932	1934	1932	1934
A	1	2	3	4	5	6	7	8
1. Children's literature	975	727	35,539	56,312	2.0	1.7	1.5	2.0
2. Books for juveniles	1,422	997	49,220	40,693	2.9	2.3	2.1	1.5
3. Textbooks	4,277	4,035	708,860	751,738	8.7	9.2	30.0	27.2
4. Literature for the masses (general literature)	32,042	24,577	1,110,693	1,399.516	64.7	56.2	46.9	50.7
5. Scientific publications (including textbooks for higher schools)	10,735	13,396	460,116	511,473	21.7	30.6	19.5	18.6
Total	**49,451**	**43,732**	**2,364,428**	**2,759,732**	**100.0**	**100.0**	**100.0**	**100.0**

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[1] Exclusive of Tadjik S.S.R.

Table 3

Book Production: Classified According to Subject Matter ¹)

Subject Matter	Year	Number of titles	Impressions per title (in thousands)	Number of signatures in all publications		Average size of volume	
				In thousands	Per cent of total	Average number of signatures per copy (Col. 3 : Col. 2)	Impressions per title (in thousands) (Col. 2 : Col. 1)
A	B	1	2	3	4	5	6
1. Social and political literature	1932	6,463	85,195	358,604	15.2	4.2	13.2
	1934	5,391	107,371	661,970	24.0	6.2	19.9
2. History	1932	851	10,040	63,823	2.7	6.4	11.8
	1934	733	9,854	93,336	3.4	9.5	13.4
3. Social-economic literature	1932	6,665	87,083	285,832	12.1	3.3	13.1
	1934	4,671	62,134	223,761	8.1	3.6	13.3
4. Law and administration	1932	912	4,733	11,442	0.5	2.4	5.2
	1934	1,112	8,232	27,535	1.0	3.3	7.4
5. The cooperative movement	1932	438	2,812	5,431	0.2	1.9	6.4
	1934	312	1,154	3,177	0.1	2.7	3.7
6. Labor and the trade union movement	1932	2,434	19,885	39,634	1.7	2.0	8.2
	1934	843	6,386	20,355	0.7	3.2	7.6
7. Mathematics and natural science	1932	3,941	44,078	335,261	14.2	7.6	11.2
	1934	3,530	43,336	330,078	12.0	7.6	12.3
8. Geography	1932	345	6,314	44,580	1.9	7.1	18.3
	1934	445	7,620	72,860	2.6	9.6	17.1
9. Engineering (technical-industrial literature)	1932	7,626	53,313	291,758	12.3	5.5	7.0
	1934	6,823	27,465	197,963	7.2	7.2	4.0
10. Engineering (transport and communications)	1932	1,942	13,393	66,448	2.8	5.0	6.0
	1934	3,180	17,341	115,879	4.2	6.7	5.5

11. Military engineering	1932 1934	683 568	5,636 5,175	16,863 30,748	0.7 1.1	3.0 5.9	8.3 9.1
12. Agriculture and Collective Farms	1932 1934	6,668 4,808	57,536 44,810	192,018 196,689	8.1 7.1	3.3 4.4	8.6 9.3
13. Medicine	1932 1934	1,311 1,495	13,871 9,663	33,224 43,698	1.4 1.6	2.4 4.5	10.6 6.5
14. Physical culture	1932 1934	316 235	2,266 1,571	5,325 5,332	0.2 0.2	2.3 3.4	7.2 6.7
15. Pedagogy	1932 1934	1,885 1,940	13,885 10,629	42,102 39,879	1.8 1.4	3.0 3.7	7.4 5.5
16. Anti-religious literature	1932 1934	312 129	2,548 1,568	5,900 5,867	0.2 0.2	2.3 3.7	8.2 12.1
17. Languages	1932 1934	1,530 1,249	36,601 37,798	232,785 232,535	9.9 8.4	6.4 6.1	23.9 30.3
18. The arts	1932 1934	525 838	2,943 4,894	10,800 15,190	0.5 0.6	3.7 3.1	5.6 5.8
19. Literary research	1932 1934	236 512	4,455 10,153	35,171 110,772	1.5 4.0	7.9 10.9	18.9 19.8
20. Fiction	1932 1934	3,235 3,414	35,296 45,589	152,807 275,762	6.4 10.0	4.3 6.0	10.9 13.3
21. Philosophy and psychology	1932 1934	173 173	1,740 2,087	15,307 29,450	0.6 1.1	8.8 14.1	10.1 12.1
22. General literature	1932 1934	960 1,331	12,044 7,257	119,313 26,896	5.1 1.0	9.9 3.7	12.5 5.5
Total	**1932** **1934**	**49,451** **43,732**	**515,667** **472,087**	**2,364,428** **2,759,732**	**100.0** **100.0**	**4.6** **5.8**	**10.4** **10.8**

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[1] **Exclusive of Tadjik S.S.R.**

30 — Socialist Construction.

5. RESEARCH INSTITUTIONS

Table 1

Number of Scientific Research Institutions and Research Workers

Types of Institutions and Categories of Workers	Absolute figures				Per cent	
	End of 1929	As at Jan. 1, 1932	As at Jan. 1, 1933	As at Jan. 1, 1935	Jan. 1, 1933 in per cent of 1929	Jan. 1, 1935 in per cent of 1934
A	1	2	3	4	5	6
Number of research institutes [1]	400	850	840	804	210.0	93.5
Affiliated institutions (affiliates)	41	267	188	129	458.2	67.9
Research workers, exclusive of auxiliary personnel (in thousands)	22.6	42.2	47.9	38.2 [2]	211.9	92.5
Number of post graduate students at research institutes (in thousands)	1.0	6.4	6.4	4.3	640.0	71.7
Number of post graduate students at universities and engineering colleges (in thousands)	2.0	8.9	8.4	6.3	420.0	90.0

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[1] Data are for All-Union Republics and local systems. In addition to the above, at the end of 1934 there were the following major scientific institutions of various types: 103 museums, 35 libraries, 30 observatories, 341 research and experimental stations, 7 central laboratories (under the Academy of Sciences), 35 institutions carrying on research on the protection and preservation of natural resources, 10 state archives.

[2] The decline in the number of scientific institutions and research workers at the beginning of 1934 is due to the reorganization of the system of scientific research and the release from duty of research workers below the required present standard of qualification.

Table 2

Network of Scientific Research Institutes and Allied Institutions: By Branches of National Economy

(As at January 1 of respective year)

Branches of National Economy [1]	Year	Institutes			Affiliated institutions		
		Number of institutions	Number of research workers [2]		Number of institutions	Number of research workers	
			Total	Average per institution		Total	Average per institution
A	B	1	2	3	4	5	6
Total U. S. S. R.	**1932**	**850**	**66,649**	**78**	**239[3]**	**9,248**	**38**
	1933	**840**	**69,319**	**83**	**188**	**7,743**	**41**
	1935[4]	**804**	**57,280**	**71**	**129**	**4,062**	**31**
I. Central Executive Committee and Council of People's Commissars of the U.S.S.R. and of the Constituent Republics [5]	1932	58	2,204	39	2	22	11
	1933	54	1,782	33	2	20	10
	1935	113	4,464	40	11	676	61
II. Industry	1932	194	22,531	116	119	5,950	50
	1933	194	30,417	157	84	4,182	50
	1935	163	23,000	141	75	2,372	32
III. Agriculture	1932	137	12,244	89	64	2,240	35
	1933	140	13,311	95	42	2,199	52
	1935	91	8,400	92	6	353	59
IV. Transport and Communications System	1932	27	3,013	111	21	420	20
	1933	21	2,263	108	23	796	35
	1935	18	1,600	89	3	130	43
V. Social-economics	1932	56	3,669	65	17	256	15
	1933	49	3,632	74	10	203	20
	1935	53	3,070	58	1	2	2
VI. Medicine	1932	270	19,101	71	8	176	22
	1933	271	14,405	53	15	171	11
	1935	262	13,432	51	30	451	15
VII. Education	1932	108	3,887	36	8	184	23
	1933	111	3,509	32	12	172	14
	1935	104	3,317	32	3	78	26

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[1] Branches of national economy grouped according to administrative control.

[2] Including auxiliary personnel.

[3] 28 branches of local scope are not accounted for.

[4] The decrease in the network of scientific research institutions and in the number of research workers is due to the reorganization of the system of research and the merging of various institutes.

[5] Institutions controlled by the Central Executive Committee and by the Council of People's Commissars are shown together, as the Academy of Sciences of the U.S.S.R. and of the White Russian S.S.R. were transferred in 1933 and 1934, respectively, from the system of the Central Executive Committee to the system of the Council of People's Commissars.

Table 3

Number of Scientific Research Institutes, Their Branches and Research Stations (Regional and Special): By Republics and by Controlling Organizations

Controlling Organizations	Year	U.S.S.R.			Including:													
					R.S.F.S.R.		Ukrainian S.S.R.		White Russian S.S.R.		Transcaucasian S.F.S.R.		Uzbek S.S.R.		Turkmenian S.S.R.		Tadjik S.S.R.	
		Institutes	Branches	Research stations (Regional and special)	Institutes	Branches	Institutes	Branches	Institutes	Branches	Institutes	Branches	Institutes	Branches	Institutes	Branches	Institutes	Branches
A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total	1932	850	267	332	579	150	141	72	31	9	62	29	23	7	6	2	5	1
	1933	840	188	352	581	112	139	54	34	4	41	13	28	4	10	1	7	—
	1935	804	129	341	530	69	133	45	34	1	62	11	27	3	11	—	7	—
1. Central Executive Committee and Council of People's Commissars of the U.S.S.R. and of Constituent Republics [1]	1933	58	4	7	37	1	5	3	14	—	2	—	—	—	—	—	—	—
	1935	113	11	12	59	3	25	5	17	—	8	3	4	—	—	—	—	—
2. People's Commissariat of Heavy Industry	1933	136	42	—	110	22	17	13	1	1	4	5	3	1	—	—	1	—
	1935	108	27	—	88	17	16	6	—	—	3	3	1	1	—	—	—	—
3. People's Commissariat of Light Industry	1933	16	5	—	11	3	3	1	1	—	—	—	1	1	—	—	—	—
	1935	4	3	—	4	3	—	—	—	—	—	—	—	—	—	—	—	—
4. People's Commissariat of Timber Industry	1933	16	5	5	14	4	1	1	1	—	—	—	—	—	—	—	—	—
	1935	13	5	4	11	3	—	2	1	—	1	—	—	—	—	—	—	—
5. People's Commissariat of Supply [2]	1933	26	32	10	17	24	6	2	1	1	2	4	—	1	—	—	—	—
	1935	22	34	25	18	26	1	4	—	1	3	2	—	1	—	—	—	—
6. People's Commissariat of Municipal Economy	1933	2	1	—	1	—	1	1	—	—	—	—	—	—	—	—	—	—
	1935	4	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—
7. People's Commissariat of Local Industry	1935	16	6	—	8		4	1	2	—	—	2	1	—	—	—	1	—
8. All Union Association of Producers' Cooperatives	1933	2	—	—	2	—		—	—	—	—	—	—	—	—	—	—	—
	1935	3	—	—	2	—	—	—	—	—	1	—	—	—	—	—	—	—

9. People's Commissariat of Agriculture and People's Commissariat of State Farms	1933	109	40	295	77	31	15	3	3	2	7	2	5	1	2	1	—	—
	1935	84	5	269	55	2	13	2	2	—	9	—	4	1	—	—	1	—
10. Meteorological and Hydrological Service of the U.S.S.R.	1933	31	2	4	19	2	1	—	1	—	2	—	5	—	2	—	1	—
	1935	7	1	16	4	1	1	—	—	—	1	—	1	—	—	—	—	—
11. People's Commissariat of Railway Transport	1933	8	16	—	7	8	—	7	—	—	1	1	—	—	—	—	—	—
	1935	8	—	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—
12. People's Commissariat of Water Transport	1933	1	4	—	1	2	—	2	—	—	—	—	—	—	—	—	—	—
	1935	1	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
13. Other transport	1933	12	3	—	7	2	2	1	—	—	1	—	—	—	1	—	—	—
	1935	9	3	4	4	1	1	1	1	—	—	1	1	—	1	—	1	—
14. All-Union Central Council of Trade Unions	1933	12	4	—	9	3	1	—	—	—	1	1	1	—	—	—	—	—
	1935	20	—	—	11	—	5	—	1	—	2	—	1	—	—	—	—	—
15. Central Union of Consumers' Cooperative Societies ("Centrosoyuz")	1933	12	1	—	8	1	4	—	—	—	—	—	—	—	—	—	—	—
	1935	3	—	—	2	—	1	—	—	—	—	—	—	—	—	—	—	—
16. People's Commissariat of Foreign Trade	1933	4	—	13	4	—	—	—	—	—	—	—	—	—	—	—	—	—
	1935	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—
17. State Planning Commission of the U.S.S.R.	1933	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—
	1935	8	—	—	5	—	—	—	—	—	1	—	1	—	1	—	—	—
18. People's Commissariat of Justice	1933	5	2	—	1	—	3	2	1	—	—	—	—	—	—	—	—	—
	1935	7	1	—	2	1	3	—	1	—	—	—	1	—	—	—	—	—
19. People's Commissariat of Education	1933	111	12	18	73	2	23	10	2	—	8	—	2	—	2	—	1	—
	1935	104	3	10	71	2	16	1	2	—	10	—	2	—	2	—	1	—
20. People's Commissariat of Public Health	1933	271	15	—	175	7	57	8	9	—	13	—	11	—	3	—	3	—
	1935	262	30	—	168	10	44	20	7	—	23	—	10	—	7	—	3	—
21. Other organizations	1933	6	—	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	1935	6	—	—	5	—	1	—	—	—	—	—	—	—	—	—	—	—

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[1] Scientific research institutes of the Ukrainian and White Russian Academies of Sciences were transferred in 1934 from the control of the People's Commissariat of Education to that of the Council of People's Commissars.

[2] For 1935 scientific research institutes under the control of the People's Commissariat of the Food Industry.

X. MUNICIPAL SERVICES

Table 1

Tramways

(Street Cars)

Cities	Number of passenger cars				Coefficient of utilization of rolling stock (car-hours) 1935	Total run (car-km)				Passengers carried				Number of trips per capita per year	
	As at July 1, 1932	As at Jan. 1, 1936	Per cent of 1932			1931	1935	Per cent of 1931		1931	1935	Per cent of 1931		1931	1935
			As at Jan. 1, 1934	As at Jan. 1, 1936		Thousands of car-km		1933	1935	Thousands		1933	1935		
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Moscow	2,183	2,472	116.8	113.2	66.7	130,950.7	241,341.3	176.6	184.4	1,327,335.7	1,873,600.0	142.3	141.2	466	515
Leningrad	1,879	2,391	121.0	127.2	60.6	123,992.4	173,512.2	123.5	139.9	1,071,850.4	1,126,800.0	110.7	105.1	451	411
Baku	176	206	110.2	117.0	63.6	93,902.1	13,935.7	122.8	148.4	138,803.0	176,722.5	119.9	127.3	238	nodata
Kharkov	344	421	123.8	122.4	57.5	17,547.1	29,436.1	121.1	167.8	167,834.0	237,672.5	129.1	141.6	299	380
Kiev	325	301	96.0	92.6	56.9	12,304.4	16,973.0	115.7	137.9	143,754.4	205,290.7	112.9	142.8	269	328
Rostov-on-Don	249	249	93.6	100.0	56.3	10,799.0	14,638.0	100.4	135.5	113,121.1	111.710.0	100.2	98.8	260	233
Odessa	305	354	107.9	116.1	53.1	15,511.7	20,634.4	85.9	133.0	147,016.5	177,245.0	89.7	120.6	317	348
Tashkent	137	164	117.5	119.7	63.3	5,562.8	11,030.4	121.8	198.3	87,711.1	126,573.2	105.1	144.3	206	nodata
Sverdlovsk	75	131	142.7	174.7	53.8	3,232.2	9,176.0	206.7	283.9	40,287.2	67,090.0	158.6	166.5	129	149
Gorky	114	221	181.6	193.9	58.0	3.179.0	12,721.5	160.5	400.2	40,650.1	78,059.2	122.7	192.0	115	152
Tbilissi (Tiflis)	181	215	103.3	118.8	50.5	8,102.4	10,506.8	106.8	127.7	109,982.9	117,822.3	104.0	107.1	307	nodata
Stalingrad	82	138	146.3	168.3	63.6	4,496.7	10,788.8	125.1	239.9	45,962.6	62,659.0	94.3	136.3	150	161
Dniepropetrovsk	177	200	96.0	113.0	59.7	7,760.9	13,568.9	90.0	174.8	67,285.6	85,198.7	92.2	126.6	206	221
Saratov	117	149	nodata	127.4	46.0	5,948.5	7,957.7	83.0	133.8	56.328.3	51,700.0	66.3	91.8	197	152
Perm	33	48	121.2	145.4	nodata	966.3	2,785.7	199.8	288.3	10,851.3	22,050.4	139.5	203.2	nodata	131
Kuibyshev (formerly Samara)	109	140	111.0	128.4	38.6	3.879.1	6,400.0	105.7	165.0	42,620.3	58,000.0	112.3	136.1	187	214

Kazan	90	105	132.2	116.7	51.1	4.200.6	6,056.6	125.1	144.2	41,793.9	52,420.4	117.9	125.4	198	193
Astrakhan	80	73	118.8	91.2	no data	3,685.3	4,518.9	104.3	122.6	40,920.9	32,451.6	78.2	79.3	188	130
Cheliabinsk ¹)	22	54	177.3	245.5	44.1	—	3,470.5	—	—	—	21,781.2	—	—	—	83
Voronezh	55	102	121.8	185.5	44.8	2,013.0	5,491.6	115.3	272.8	25,387.4	41,657.9	116.7	164.1	147	174
Archangel	63	78	112.7	123.8	48.7	1,773.9	4,309.8	162.5	243.0	21,957.8	36,875.7	no data	167.9	143	163
Tula	39	58	133.3	148.7	no data	1.723.6	4,028.4	148.9	233.7	23,868.8	45,778.8	154.4	191.8	122	227
Yaroslavl	56	80	130.4	142.9	57.1	2,137.6	4,855.4	137.7	227.1	20,060.6	38,158.1	138.1	190.2	131	182
Zaporozhie ²)	—	69	—	—	54.2	—	5,032.5	—	—	—	30,124.2	—	—	—	147
Shakhty ³)	—	27	—	—	56.0	—	1,697.8	—	—	—	8,497.0	—	—	—	no data
Gorlovka ⁴)	—	24	—	—	no data	—	1,196.5	—	—	—	8,282.0	—	—	—	137
Nikolayev	62	70	80.6	112.9	42.1	1,993.3	3.316.9	72.7	166.4	20,413.3	23.097.2	65.4	113.1	no data	165
Vitebsk	30	40	103.3	133.3	53.8	1,052.9	2,046.0	130.1	194.3	13,047.3	17,683.0	100.6	135.5	no data	no data
Krasnodar	106	93	100.0	87.7	44.8	4,183.1	5,174.9	94.7	123.7	34,345.0	35,200.0	99.1	102.5	no data	190
Erevan ⁵)	—	46	—	—	54.9	—	2,856.1	—	—	—	22,899.1	—	—	no data	173
Ordjonikidze	28	24	100.0	85.7	no data	612.3	1,122.6	58.1	183.3	6,442.6	10,837.0	55.3	168.2	no data	no data
Smolensk	24	18	91.7	75.0	39.5	693.0	634.5	60.4	91.6	10,039.4	8,071.0	45.6	80.4	no data	63
Kirovo	31	22	74.2	71.0	no data	1,016.3	817.0	44.1	80.4	7,562.7	5.501.0	45.2	72.7	no data	59
Kirovabad ⁶)	—	24	—	—	48.7	—	1,173.9	—	—	—	9,443.0	—	—	—	no data
Vinnitsa	11	16	100.0	145.5	38.5	602.6	499.0	43.0	82.8	6,360.0	5,990.0	49.2	94.2	no data	80
Noginsk	16	21	125.0	131.2	43.8	891.5	1,082.7	94.6	121.4	6,797.4	6,575.0	103.2	96.7	no data	99
Taganrog ⁷)	—	46	—	—	58.2	—	3,057.9	—	—	—	19,844.2	—	—	—	129
Kalinin	26	48	150.0	180.8	70.8	1.345.9	4.110.3	186.3	305.4	18,252.4	32,571.5	150.1	178.5	no data	206

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¹) Cheliabinsk tramway put into operation end of 1932.
²) Zaporozhie „ „ „ „ July 17, 1932.
³) Shakhty „ „ „ „ end of 1932.
⁴) Gorlovka „ „ „ „ „ „ 1932.
⁵) Erevan „ „ „ „ in 1933.
⁶) Kirovabad „ „ „ „ in 1933.
⁷) Taganrog „ „ „ „ November 1932.

Note. Data for 1935 preliminary.

Cities	Number of buses				Coefficient of utilization of buses (car-days)	
	As at July 1, 1932	As at Jan. 1, 1936 [1]	Per cent of 1932			
			Jan. 1, 1934	Jan. 1, 1936	1933	1935
A	1	2	3	4	5	6
Moscow	330	443	111.8	134.2	59.4	75.0
Leningrad	121	397	179.3	328.1	54.1	70.0
Baku	24	31	100.0	129.2	22.6	55.5
Kharkov	56	35	117.9	62.5	18.9	48.5
Kiev	10	56	no data	560.0	no data	68.8
Sverdlovsk	36	26	72.2	72.2	24.0	65.3
Stalingrad	9	16	100.0	177.8	71.5	24.0
Dniepropetrovsk	33	23	87.9	69.7	28.1	53.9
Novosibirsk	25	24	76.0	96.0	46.5	53.9
Astrakhan	—	6	—	—	69.8	41.3
Omsk	19	29	26.3	152.6	32.6	55.1
Voronezh	—	6	—	—	no data	64.8
Archangel	—	11	—	—	no data	67.4
Grozny	15	23	113.3	153.3	no data	60.0
Ivanovo	50	48	104.0	96.0	81.4	28.3
Ufa	8	21	125.0	262.5	63.9	76.2
Shakhty	8	13	100.0	162.5	71.8	41.9
Tomsk	15	7	no data	46.7	no data	48.4
Tambov	8	7	no data	87.5	no data	70.7
Orenburg	10	10	70.0	100.0	48.2	68.6
Kalinin	9	11	100.0	122.1	54.1	63.7
Orekhovo-Zuevo	6	7	83.3	116.7	41.6	52.6
Nikolayev	—	9	—	—	80.6	45.6
Briansk	11	11	no data	100.0	no data	67.4
Kolomna	11	10	no data	90.9	no data	60.9

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[1] For 1935 and 1936 preliminary data.

Service [1])

Total bus-km covered				Passengers carried			
1931	1935	Per cent of 1931		1931	1935	Per cent of 1931	
Thousands of bus-km		1933	1935	Thousands		1933	1935
7	8	9	10	11	12	13	14
13,954	26,217	131.8	187.9	85,110	101,108	93.0	118.8
2,557	18,536	288.0	724.9	21,610	53,999	190.1	249.9
592	1,286	71.4	217.2	2,272	2,877	53.4	126.6
2,023	1,475	45.6	72.9	12,342	5,929	42.1	48.0
463	2,227	no data	481.0	4,022	10,174	no data	253.0
772	1,264	38.4	163.7	2,278	1,261	26.3	55.3
—	575	—	—	—	664	—	—
1,195	715	40.7	59.8	7,146	4,588	41.4	64.2
no data	977	—	—	9,653	7,449	59.1	77.2
—	138	—	—	—	235	—	—
700	772	39.8	110.3	7,500	4,616	101.2	61.5
—	318	—	—	—	713	—	—
—	541	—	—	—	929	—	—
—	983	—	—	—	2,705	—	—
no data	992	—	—	17,620	2,965	41.8	16.8
198	984	138.5	497.0	1,179	3,030	174.8	257.0
—	289	—	—	—	367	—	—
no data	175	—	—	no data	839	—	—
251	262	no data	104.3	1,083	1,099	no data	101.5
472	410	31.6	86.8	4,514	3,106	25.4	68.8
346	586	83.5	169.4	1,742	511	51.4	29.3
181	294	100.3	162.4	1,530	1,031	73.5	67.4
—	246	—	—	—	220	—	—
412	453	no data	110.0	1,654	1,532	no data	92.6
307	419	no data	136.5	2,508	4,215	no data	168.1

Table 8

Municipal Electric Generating Stations and Distributing Network

Cities	Installed rated capacity of generators (kw)			Output of electric energy (thousands of kw-hrs)					Sale of electric energy (thousands of kw-hrs)				
	As at July 1, 1932	As at Jan. 1, 1935 ¹)	Per cent of 1932. As at Jan. 1, 1935 ¹)	1931	1935 ¹)	Per cent of 1931			1931	1935 ¹)	Per cent of 1931		
						1932	1933	1935 ¹)			1932	1933	1935 ¹)
A	1	2	3	4	5	6	7	8	9	10	11	12	13
Baku	—	—	—	—	—	—	—	—	34,546.7	73,534	138.9	168.1	212.9
Tbilissi (Tiflis)	—	—	—	—	—	—	—	—	47,719.2	86,116	109,3	126.0	180.5
Saratov	2,417	—	—	10,859.8	—	79.1	56.1	—	22,867.6	41.000	130.2	127.3	179.3
Astrakhan	3.200	6,200	193.7	14,105.2	28.499	116.2	134.9	202.1	10,927.3	22,857	155.5	121.8	209.2
Omsk	6,000	16,000	266.7	23.632.5	42,270	100.8	124.9	178.8	19,299.1	38,984	108.0	120.5	202.0
Archangel	—	8,000	—	—	39,000	—	—	—	—	32,800	—	—	—
Yaroslavl	5,250	3,000	57.1	8,767.5	548	19.3	13.3	6.2	10,912.1	17,671	96.9	106.2	161.9
Zlatoust	—	—	—	—	—	—	—	—	2,449.7	6,586	no data	165.7	268.8
Zaporozhie	743	—	—	2,332.0	—	no data	—	—	9,601.9	54,177	„	332.1	564.2
Shakhty	—	—	—	—	—	—	—	—	no data	5,194	„	no data	no data
Perm-Molotovo	—	—	—	—	—	—	—	—	750.4	1,953	„	264.9	260.4
Krasnodar	no data	—	—	2,682.6	—	no data	—	—	3,629.1	29,102	„	162.7	801.9
Irkutsk	4.512	no data	no data	7,144.7	36.803	no data	204.4	515.1	5,269.8	30,382	„	224.6	576.5
Tomsk	1,950	3,600	184.6	4.697.7	12,698	no data	167.0	270.3	3,922.1	9,830	„	147.6	250.1
Taganrog	—	—	—	—	—	—	—	—	3,673.3	17,554	„	222.7	477.9

Nikolayev	—	—	—	—	—	—	—	—	5,690.7	13,754	„	148.2	241.7
Izhevsk	—	—	—	—	—	—	—	—	1,677.7	7,662	„	225.7	456.6
Penza	2,052	2,052	100.0	4,324.2	2,354	no data	73.2	54.4	4,770.3	9,412	„	160.0	197.3
Barnaul	840	1,840	219.0	5,189.3	8,702	„	105.8	no data	4,450.5	7,009	„	98.7	157.5
Erevan	—	—	—	—	—	—	—	—	4,583.6	13,634	„	268.2	297.5
Krasnoyarsk	3,000	3,000	100.0	8,230.3	17,900	no data	137.4	217.5	6,346.2	18,028	„	141.0	284.1
Simferopol	—	—	—	—	—	—	—	—	7,329.5	11,553	„	137.4	157.6
Smolensk	1,864	4,633	248.6	6.504.4	15,221	no data	74.1	234.0	5,065.0	10,516	„	91.0	207.6
Novorossisk	—	—	—	—	—	—	—	—	1,431.6	5,701	„	239.9	298.2
Kursk	940	no data	no data	3,122.3	12.262	no data	75.3	392.7	2,718.0	9.519	„	82.1	350.2
Tambov	1,335	870	65.2	5,507.2	1,580	„	26.9	28.7	4,623.5	10,817	„	152.8	234.0
Poltava	4,350	4,350	100.0	12,843.9	23,809	„	144.2	185.4	9,742.2	19.429	„	145.4	199.4
Orel	2,366	no data	no data	6,486.0	8,778	„	76.2	135.3	5,176.0	7,835	„	79.5	151.4
Kirovo	6,940	6,880	99.1	18,642.4	23.223	„	91.6	124.6	17,234.7	17,852	„	76.1	103.6
Kerch	—	—	—	—	—	—	—	—	1.235.1	3,098	„	193.1	250.8
Serpukhov	—	—	—	—	—	—	—	—	1,960.0	5,774	„	216.6	294.6
Ulianovsk	1,177	no data	no data	2,701.0	2,090	—	134.9	77.4	2,407.4	4,027	„	146.0	167.3
Vinnitsa	1,451	1,206	83.1	3,646.3	9,972	no data	112.9	273.5	2,357.5	7,544	„	135.9	320.0
Batumi	1,004	1,037	103.3	2,409.6	3.620	„	128.9	150.2	2,012.3	4,632	„	155.3	230.2
Briansk	—	—	—	—	—	—	—	—	2,217.0	5,735	„	132.0	258.7
Murmansk	970	no data	no data	1,218.6	16,493	no data	130.2	1,353.4	1,012.2	12,521	„	130.0	1,237.0
Kolomna	125	—	—	219.6	—	—	—	—	2,864.5	6,353	„	153.3	221.8
Bezhitsa	—	—	—	—	—	—	—	—	1,578.8	4,681	„	194.0	296.5
Dzerzhinsk	—	—	—	—	—	—	—	—	no data	4,454	„	no data	no data
Stalinabad	110	no data	no data	516.4	4,883	no data	248.4	945.6	612.4	3,309	„	155.6	540.3

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[1] For 1935 preliminary data.

Table 4

Municipal Water Supply

Cities	Average daily water supply					Total water supply					Average daily water supply per inhabitant (in liters)	
	Thousands of cubic meters		Per cent of 1931			Thousands of cubic meters		Per cent of 1931				
	1931	1935	1932	1933	1935	1931	1935	1932	1933	1935	1931	1935
A	1	2	3	4	5	6	7	8	9	10	11	12
Moscow	351.6	561.4	116.1	130.8	159.7	114,859.6	182,425	117.4	133.5	158.8	126.4	154.2
Leningrad	361.3	513.9	110.1	115.9	142.2	115,643.3	174,531	113.8	124.8	150.9	162.2	187.6
Baku	no data	66.9	no data	no data	no data	13,904.3	21,220	117.6	135.9	152.6	no data	no data
Kharkov	40.5	59.3	117.8	137.6	146.4	12,867.1	19,149	135.5	130.1	148.8	75.7	94.8
Kiev	46.4	67.6	111.6	121.8	145.7	15,955.3	23,042	108.9	118.2	144.4	85.9	108.2
Rostov-on-Don	34.8	47.7	106.3	110.9	137.1	11,589.0	15,388	102.3	100.0	132.8	82.0	99.4
Odessa	60.1	74.6	no data	110.1	124.1	17,614.7	no data	no data	109.2	no data	126.4	146.6
Tashkent	no data	11.1	»	no data	no data	190.7	3,905	624.7	911.4	204.8	no data	no data
Sverdlovsk	7.4	15.5	145.9	197.3	209.5	1,963.2	5,015	166.1	223.5	255.5	31.3	34.4
Gorky	22.6	40.2	116.4	142.5	177.9	7,411.7	14,080	116.0	151.5	190.0	64.4	78.4
Tbilissi (Tiflis)	18.4	38.5	114.1	125.5	209.2	5,196.7	10,554	113.9	123.7	203.1	53.0	no data
Stalingrad	21.2	45.2	113.2	145.3	213.2	6,934.5	14,738	109.2	133.3	212.5	72.8	115.9
Dniepropetrovsk	18.2	36.4	no data	116.1	200.0	5,539.2	no data	no data	96.3	no data	56.4	94.6
Saratov	15.6	24.3	110.9	no data	155.8	3,843.8	6.470	157.3	no data	168.3	56.3	71.5
Novosibirsk	6.8	no data	119.1	152.9	no data	2,044.3	no data	130.9	»	no data	37.5	no data
Stalino	4.3	»	no data	123.3	»	1,514.2	»	no data	128.0	»	22.3	»
Kuibyshev (formerly Samara)	13.0	26.2	146.9	166.2	201.5	3,710.0	9,277	174.0	201.1	250.1	58.8	96.7
Kazan	6.6	10.5	122.7	125.8	159.1	1,861.9	3,160	120.1	123.9	169.7	32.6	38.6
Astrakhan	7.3	10.4	116.4	120.5	142.5	2,466.3	3,295	106.3	107.2	133.6	36.5	41.6
Cheliabinsk	5.8	16.5	117.2	156.9	284.5	1,785.2	no data	115.2	150.6	no data	47.1	62.7
Voronezh	9.4	18.2	123.4	127.7	193.6	2,393.6	5,307	132.9	142.6	221.7	58.1	75.8
Archangel	3.5	6.8	117.1	no data	194.3	805.8	1,492	124.8	no data	185.2	27.9	30.1
Tula	6.6	10.2	106.1	116.7	154.5	2,028.1	3,081	110.0	116.4	151.9	34.8	50.7
Ivanovo	8.6	13.7	116.3	132.6	159.3	2,313.5	4,311	136.0	152.6	186.3	52.8	63.6

Minsk	5.6	10.8	126.8	158.9	192.9	1,773.6	3,085	117.2	130.3	173.9	36.2	57.9
Vladivostok	1.0	no data	130.0	no data	no data	228.0	no data	152.7	no data	no data	6.4	no data
Yaroslavl	4.7	11.5	123.4	140.4	244.7	1,347.8	3,855	136.3	164.5	286.0	30.4	54.9
Ufa	2.0	2.8	no data	100.0	140.6	595.5	809	no data	96.4	135.8	15.9	14.4
Lugansk	1.0	no data	„	230.0	no data	319.0	no data	„	251.3	no data	9.9	no data
Zaporozhie	3.0	9.0	„	123.3	300.0	1,020.1	2,866	„	116.4	281.0	36.6	44.0
Shakhty	2.3	4.2	100.0	130.4	182.6	752.8	1,519	103.6	141.4	201.8	30.8	47.0
Krasnodar	5.0	5.7	no data	96 0	114.0	1,490.7	1,620	no data	89.8	108.7	29.7	30.7
Irkutsk	2.9	4.8	„	113.8	165.5	1,020.4	1,527	„	107.1	149.6	27.6	26.1
Grozny	5.0	no data	114.0	no data	no data	1,439.6	no data	133.3	no data	no data	33.6	no data
Tomsk	3.8	5.4	no data	110.5	142.1	1,192.3	1,737	no data	113.2	145.7	28.8	38.3
Kalinin	2.1	4.0	„	152.4	190.5	525.9	1,215	„	163.5	231.0	16.1	25.3
Mariupol	1.6	no data	„	118.8	no data	476.7	no data	„	132.0	no data	15.2	no data
Taganrog	1.3	4.3	„	130.8	330.8	415.6	1,381	„	128.9	332.3	10.9	28.0
Nikolayev	3.9	6.0	„	115.4	153.8	1,267.0	2.011	„	117.3	158.7	31.7	42.9
Izhevsk	0.4	4.9	„	725.0	1,225.0	134.8	1,676	„	726 2	1,243.3	4.1	39.0
Vitebsk	5.3	6.6	„	105.7	124.5	1,262.7	2.040	„	132.5	161.6	49.2	50.6
Gomel	2 2	5.2	„	131.8	236.4	761.3	1,749	„	126.5	229.7	20.2	40.9
Erevan	3.0	6.4	„	190.0	213.3	870.0	1,882	„	189.9	216.3	33.4	48.3
Ordjonikidze	5.0	5.8	„	no data	112.0	1,645.6	1,797	„	no data	109.2	55.7	51.8
Simferopol	5.0	8.2	„	134.0	164.0	1,719.1	2,744	„	165.6	159.6	55.9	79.5
Smolensk	3.6	6.0	„	113.9	166.7	1,082.6	1,871	„	121.1	172.8	41.6	46.9
Novorossisk	3 3	5.0	„	124.2	151.5	1,120.0	1,624	„	121.4	145.0	40.0	52.1
Kursk	3.0	4.5	„	106.7	150.0	858.1	1,336	„	102.9	155.7	32.2	no data
Makeyevka	no data	4.9	„	no data	no data	674.4	no data	„	154.4	no data	no data	43.0
Orekhovo-Zuevo	1.3	2.2	„	115.4	169.2	466.8	714	„	106.5	153.0	17.2	26.6
Krivoy-Rog	1.5	no data	„	no data	no data	523.1	no data	„	64.7	no data	26.8	no data
Vinnitsa	3.2	3.8	„	„	118.8	1,009.8	1,269	„	80.7	125.7	52.8	50.9
Noginsk	0.7	1.3	„	171.4	185.7	238.0	461	„	144.2	193.7	12.6	19.6
Makhach-Kala	1.1	no data	no data	no data	no data	357.3	no data	„	no data	no data	20.5	no data
Dzerzhinsk	0.4	1.4	„	175.0	350.0	160.6	482	„	143.1	300.1	11.8	21.2
Kramatorsk	1.1	no data	„	236.4	no data	366.0	no data	„	258.2	no data	34.1	no data
Ashkhabad	4.0	6.3	„	117.5	157.5	1,086.6	1,378	„	99.2	126.8	63.2	„
Kerch	1.0	2.3	„	130.0	230.0	335.9	746	„	123.5	222.1	18.7	28.9
Batumi	3.3	6.5	„	no data	197.0	1,006.0	2,196	„	188.6	218.3	58.0	no data
Krasnoyarsk	3.9	4.9	„	„	125.6	1.037.7	1,359	„	no data	131.0	47.1	35.5
Zlatoust	0.9	4.7	200.0	322.2	522.2	1,233.2	1,300	216.5	397.6	557.5	11.4	44.5

Note. For 1935 preliminary data.

Table 5

Municipal Sewer System [1]

Cities	Sewerage water carried by sewer system (average per day)				
	Thousands of cubic meters		Per cent of 1931		
	1931	1935	1932	1933	1935
A	1	2	3	4	5
Moscow	223.0	348.8	117.1	128.6	156.4
Baku	10.4	15.5	125.0	138.5	149.0
Kharkov	33.1	58.9	112.1	124.8	177.9
Kiev	56.5	68.2	95.9	112.7	120.7
Rostov-on-Don	20.7	27.8	101.4	110.1	134.3
Odessa	42.4	56 2	no data	122.2	132.5
Sverdlovsk	1.7	13.4	223.5	417.6	788.2
Gorky	6.2	27.1	132.4	240.3	437.1
Tbilissi (Tiflis)	17.8	36.4	113.5	123.6	204.5
Stalingrad	2.0	4.0	120.0	130.0	200.0
Dniepropetrovsk	4 8	12.1	no data	100.0	252.1
Saratov	5.9	11.2	122.0	125.4	189.8
Novosibirsk	2.0	6.0	165.0	195.0	300.0
Kuibyshev (formerly Samara)	7.5	15.7	133.3	169.3	209.3
Kazan [2])	—	5.7	no data	no data	no data
Cheliabinsk [3])	—	6.1	„	„	„
Voronezh	2.8	8.5	121.4	150.0	303.6
Tula	4.9	10.4	149.0	167.3	212.3
Ivanovo	28.1	34.1	106.8	103.9	121.4
Minsk	1.9	5.8	205.3	257.9	305.3
Yaroslavl	no data	21.0	no data	no data	no data
Kalinin	0.9	2.1	„	177.8	233.3
Orenburg	1.4	2.3	„	128.6	164.3
Simferopol	1.6	3.0	„	137.5	187.5
Poltava	no data	1.5	„	no data	„
Serpukhov	0.5	6.4	„	180.0	1,280.0
Ulianovsk	0.4	0.9	„	225.0	225.0
Noginsk	no data	0.5	„	no data	no data

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[1]) For 1935 preliminary data.
[2]) There was no sewer system in Kazan in 1931.
[3]) In 1931 the sewer system of Cheliabinsk was controlled by non-municipal organs.

XI. FINANCES

Table 1

State (Federal) Budget: Receipts and Expenditures

(In millions of rubles)

A. RECEIPTS

Items of Revenue	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
Total revenue	**6,654.1**	**11,230.3**	**4,048.6**	**20,341.9**	**30,573.5**	**40,153.1**	**50,759.6**
I. Revenue from socialized economy	5,413.3	9,526.1	3,495.1	17,148.4	25,768.7	32,752.1	42,123.2
1. Turnover tax (chiefly industry turnover)	3,146.1	5,354.1	2,172.0	10,601.8	17,693.3	23,166.5	30,242.0
2. Special commodity reserves	—	299.2	248.3	1,070.2	1,901.8	3,893.7	7,433.1
3. Agricultural tax (from Collective Farms)	9.9	21.1	15.4	77.0	121.5	222.6	247.3
4. Appropriations to State budget from profits	535.0	1,342.8	383.3	1,333.3	1,409.6	1,164.7	1,316.8
Including:							
a) Heavy industry	157.8	402.7	135.0	334.0	388.3	342.5	391.0
b) Light industry	156.2	351.4	72.1	129.3	163.3	122.2	74.1
c) Local industrial enterprises	—	305.5	67.2	368.9	162.3	—	—
d) People's Commissariat of Supply and Trade	88.3	121.3	55.9	255.6	229.6	351.5	298.3
5. Transport	1,149.9	1,657.2	488.5	2,126.0	2,511.9	2,484.3	1,341.3 1)
Of which: Railways	1,115.0	1,608.9	483.4	2,113.3	2,479.2	2,437.0	1,336.0 1)
6. Communications system (post, telegraph, telephone, radio)	56.2	105.3	34.7	198.5	324.3	284.4	201.8
7. Socialized economy loans	454.6	622.4	143.6	1,644.3	1,492.4	1,211.5	913.3
8. Miscellaneous	61.6	124.0	9.3	97.3	313.9	324.4	427.6
II. Investments of the general public in State loans, deposits in savings banks, etc.	792.8	1,135.8	389.4	2,688.4	4,208.4	5,780.6	6,261.3
Including:							
1. Public loans	270.2	656.0	212.4	1,616.4	2,370.5	3,176.3	3,343.8
2. Obligatory payments	522.6	479.8	177.0	1,072.0	1,779.1	2,584.6	2,864.6
Including:							
a) Special tax for cultural and housing purposes	—	—	—	518.1	941.6	1,369.4	1,465.0
b) Agricultural tax	439.5	384.5	154.8	381.0	337.5	547.6	563.9
c) Income tax	83.1	95.3	22.2	107.9	114.4	195.9	232.6
d) Travellers' insurance	—	—	—	65.0	219.5	301.9	272.2
III. Social insurance funds allocated for health protection	—	—	—	—	—	—	696.3
IV. Other receipts 2)	448.0	568.4	164.1	505.1	596.4	1,620.4	1,678.8

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1) The decline in budget receipts from Transport is due chiefly to changes in methods of accounting.

2) Receipts not distributed by items and referring chiefly to socialized economy (allocations of the All-Union Central Council of Trade Unions for students' stipends and scholarships; customs and duties; established credits, etc.).

State (Federal) Budget: Receipts and Expenditures

(In millions of rubles)

B. EXPENDITURES

Items of Expenditure	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
Total expenditures	6,670.4	10,765.6	3,994.1	20,332.8	30,283.0	35,666.6	48,306 6
I. **National** economy	3,436.5	6,031.9	2,608.7	15,327.7	23,161.3	25,113.9	30,233.2
1. Industry and trade	1,409.4	2,964.2	1,336.8	9,770.2	15,357.2	16,122.3	16,981.2
Including:							
a) Heavy industry (inclusive of electrification)	965.0	1,861.2	772.9	7,018.7	11,149.7	11,320.8	10,363.8
b) Light industry	28.9	140.3	41.5	224.0	393.4	759.4	1,249.0
c) Timber industry	157.9	273.2	179.8	537.6	1,033.8	968.8	1,032.9
d) Food industry	257.6	689.5	342.6			444.9	761.4
e) Internal trade and supply				1,749.0	2,646.4	2,562.7	3,492.3
f) Foreign trade				240.9	133.9	65.7	81.8
2. Agriculture	540.4	1,099.0	582.1	2,693.6	3,723.5		
a) People's Commissariat of State Farms						1,546.8	2,125.9
b) People's Commissariat of Agriculture						2,370.3	4,027.0
3. Transport	1,282.7	1,694.6	620.5	2,637.0	3,654.2	3,377.2	5,555.6
a) Railways	1,025.5	1,266.7	458.1	1,925.2	2,601.9	2,301.5	3,692.8
b) Shipping and waterways	180.9	290.8	92.6	289.2	465.1	543.8	914.5
c) Highways, unsurfaced roads and automobile transport	74.0	118.9	58.9	288.1	362.0	347.0	626.5
d) Civil air fleet	2.3	18.2	10.9	134.5	165.2	143.8	214.8
e) Chief Administration of the Great Northern Sea Route	—	—	—	—	—	41.1	107.0
4. Communications system (post, telegraph, telephone, radio)	46.6	78.0	29.9	160.7	219.8	184.8	242.7
5. Municipal utilities and housing construction	67.5	76.1	0.5	24.7	95.7	88.2	404.5
6. Other items of expenditure	89.9	120.0	38.9	41.5	110.9	1,424.3	896.3
II. Allocations for social and cultural purposes	416.1	740.3	296.3	1,290.7	1,718.7	2,334.5	3,240.9
Including:							
a) Education	343.7	650.4	276.3	1,172.6	1,524.2	2,060.9	2,737.6
b) Public health and physical culture	37.5	49.3	12.1	74.1	116.0	177.1	382.1
III. Administration and national defense	1,256.0	1,474.6	558.8	1,839.6	2,018.3	2,433.1	6,800.7
IV. Expenditures connected with State loans	317.5	405.7	74.9	408.3	961.8	1,273.0	1,876.7
V. Transfer of funds to local budgets	1.045 6	1,460.8	205.7	1,124.6	1,724.9	2,562.2	5,014.0
VI. Other and undistributed expenditures	198.7	652.3	249.7	341.9	698.0	1,949.9	1,141.1

Table 2

State (Federal) Budget Receipts and Expenditures

(Per cent of total and per cent of 1928-29)

Items of Revenue and Expenditure	Per cent of total				Per cent of 1928-29		
	1928-29	1932	1933	1934	1932	1933	1934
A	1	2	3	4	5	6	7
Receipts	**100.0**	**100.0**	**100.0**	**100.0**	**459.5**	**603.4**	**762.8**
I. Revenue from socialized economy	81.4	84.3	81.6	83.0	476.0	605.0	778.1
1. Turnover tax (chiefly industry turnover)	47.3	57.9	57.7	59.6	562.4	736.4	961.3
2. Special commodity reserves	—	6.2	9.6	14.7	—	—	—
3. Agricultural tax (from Collective Farms)	0.2	0.4	0.6	0.5	1,227.3	2,248.5	2,498.0
4. Appropriations to State budget from profits	8.0	4.6	2.9	2.6	263.5	217.7	246.1
5. Transport	17.3	8.2	6.2	2.6	218.4	216.0	116.6
Including: Railways	16.8	8.1	6.1	2.6	222.3	218.6	119.8
6. Communications system (post, telegraph, telephone, radio)	0.8	1.1	0.7	0.4	577.0	506.0	359.1
7. Socialized economy loans	6.9	4.9	3.1	1.8	328.3	266.5	200.9
8. Miscellaneous	0.9	1.0	0.8	0.8	509.6	526.6	694.2
II. Investments of the general public in State loans, deposits in savings banks. etc.	11.9	13.8	14.3	12.3	530.8	729.1	789.8
Including:							
1. Public loans	4.0	7.8	7.9	6.6	877.3	1,175.5	1,237.5
2. Receipts from obligatory payments	7.9	5.8	6.4	5.7	340.4	494.6	548.1
III. Social insurance funds allocated for health protection	—	—	—	1.4	—	—	—
IV. Other receipts 1)	6.7	1.9	4.1	3.3	133.1	361.7	374.7

Expenditures	**100.0**	**100.0**	**100.0**	**100.0**	**454.0**	**534.7**	**724.2**
I. National economy	51.5	76.5	70.4	62.5	674.0	730.8	879.8
1. Industry and trade	21.1	50.7	45.2	35.1	1,089.6	1,143.9	1,204.9
Including:							
a) Heavy industry (inclusive of electrification)	14.5	36.8	31.7	21.5	1,155.4	1,173.1	1,074.0
b) Light industry	0.4	1.3	2.1	2.6	1,361.2	2,625.2	4,321.7
c) Timber industry	2.4	3.4	2.7	2.1	654.7	613.6	654.1
d) Food industry	—	—	1.2	1.6	—	—	—
2. Agriculture	8.1	12.3	11.0	12.7	689.0	724.9	1,138.6
3. Transport	19.2	12.1	9.5	11.5	284.9	263.3	433.1
Including: Railways	15.4	8.8	6.5	7.6	259.6	224.4	360.1
4. Communications system (post, telegraph, telephone, radio)	0.7	0.7	0.5	0.5	471.7	396.6	520.8
5. Municipal services and housing construction	1.0	0.3	0.2	0.8	141.8	130.7	599.3
6. Other items of expenditure	1.4	0.4	4.0	1.9	123.4	1,584.3	997.0
II. Allocations for social and cultural purposes	6.2	5.6	6.5	6.7	413.5	561.0	778.9
Including: Education	5.2	0.5	5.8	5.7	443.5	599.6	796.5
III. Administration and national defense	18.8	6.7	6.8	14.1	160.8	193.7	541.4
IV. Expenditures connected with State loans	4.8	3.2	3.6	3.9	302.9	400.9	591.1
V. Transfer of funds to local budgets	15.7	5.7	7.2	10.4	165.0	245.0	479.5
VI. Other and undistributed expenditures[1]	3.0	2.3	5.5	2.4	469.4	981.3	574.3

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[1] See footnote 2 to Table 1.

State Budget of the Constituent Republics

(In millions

Receipts and Expenditures	R.S.F.S.R.		Ukrainian S.S.R.		White Russian S.S.R.	
	1932	1934	1932	1934	1932	1934
A	1	2	3	4	5	6
A. Receipts	**2,186.9**	**4,754.0**	**780.8**	**1,608.8**	**246.1**	**381.2**
I. Revenue from socialized economy .	1,019.1	2,471.1	365.5	907.1	161.7	248.8
1. Turnover tax (chiefly industry turnover)	639.7	1,996.0	183.1	786.0	117.3	217.6
2. Tax from non-commercial operations	—	139.0	—	29.7	—	4.3
3. Agricultural tax (from Collective Farms)	85.5	184.7	24.1	42.1	2.2	6.3
4. Income tax	106.4	90.9	10.0	6.9	1.6	0.7
5. Appropriations to State budget from profits	186.9	46.2	148.1	37.4	40.6	19.5
Of which: From industry . . .	100.9	21.1	141.8	36.4	38.6	16.7
6. Miscellaneous	0.6	14.3	0.2	5.0	—	0.4
II. Investments of the general public. in State loans, savings banks deposits, etc.	997.3	1,513.8	384.2	494.3	56.4	102.6
1. Public loans	486.6	592.3	133.2	164.5	14.1	18.2
2. Receipts from obligatory payments	510.7	921.5	251.0	329.8	42.3	84.4
Including:						
a) Special tax for cultural and housing purposes	166.1	253.7	191.0	213.6	26.1	45.1
b) Agricultural tax	230.2	378.4	60.0	103.9	16.2	33.0
III. Social insurance funds allocated for health protection	—	418.2	—	129.8	—	11.8
IV. Other receipts	71.9	137.8	15.3	9.6	2.4	2.3
Total revenue of Constituent Republic	2,088.3	4,540.9	735.0	1,540.8	220.5	365.5
Subsidies from the All-Union State (Federal) budget	97.5	186.4	15.8	56.1	25.6	3.3
Surplus from budgets of previous years	1.1	26.7	—	11.9	—	12.4
B. Expenditures	**2,179.0**	**4,753.8**	**760.1**	**1,586.2**	**237.9**	**366.1**
[illegible] National economy	392.9	326.6	195.8	232.9	69.5	64.5
1. Industry and trade	90.1	104.6	85.6	141.0	33.2	37.1
Including:						
a) Heavy industry	49.2	47.7	40.9	43.5	23.6	16.3
b) Light industry	27.2	48.9	13.1	88.5	4.4	17.8
c) Food industry and trade . . .	13.7	8.0	31.6	9.0	4.0	1.9
2. Agriculture	278.1	171.4	91.1	42.0	30.5	19.4
3. Other expenditures	24.7	50.6	19.1	49.9	5.8	8.0
II. Allocations for social and cultural purposes	385.5	706.9	224.4	362.5	56.3	101.9
a) Education	316.8	508.3	187.4	272.4	46.3	80.7
b) Public health and physical culture	23.9	118.6	23.8	70.7	8.5	18.8
III. Administration	142.2	226.1	50.8	81.0	10.9	15.7
IV. Other and undistributed expenditures	99.8	51.6	28.0	38.2	5.6	11.5
Total net expenditures	1,020.4	1,311.2	499.0	714.6	142.3	193.6
V. Transfer of funds to local budgets	1,157.7	3,438.6	247.4	870.8	95.5	165.8
Total expenditure of Constituent Republic	2,178.1	4,749.8	746.4	1,585.4	237.8	359.4
VI. Transferred to the All-Union State (Federal) budget	0.9	4.0	13.7	0.8	0.1	5.7

Table 3

of the Soviet Union, as of 1932-34

of rubles)

Transcaucasian S.F.S.R.		Uzbek S.S.R.		Turkmenian S.S.R.		Tadjik S.S.R.		Total for the U.S.S.R.	
1932	1934	1932	1934	1932	1934	1932	1934	1932	1934
7	8	9	10	11	12	13	14	15	16
401.9	**608.5**	**264.3**	**418.8**	**120.2**	**174.8**	**113.1**	**149.8**	**4,113.3**	**8,095.9**
296.1	422.0	192.4	320.1	45.6	89.7	22.4	50.7	2,102.8	4,509.5
267.7	389.0	178.5	298.0	43.4	86.2	20.1	47.2	1,449.8	3,820.0
—	7.8	—	3.8	—	0.9	—	1.0	—	186.5
1.5	4.2	6.3	8.6	1.1	0.4	0.8	1.0	121.5	247.3
2.5	3.1	0.6	2.0	—	0.8	—	0.3	121.1	104.7
24.4	17.3	7.0	7.2	1.1	1.3	1.5	1.1	409.6	130.0
17.6	6.6	5.7	5.4	0.4	0.7	1.3	1.0	306.3	87.9
—	0.6	—	0.5	—	0.1	—	0.1	0.8	21.0
87.1	140.3	57.7	73.1	10.3	15.7	14.5	14.9	1,607.5	2,354.7
27.0	36.3	19.5	21.3	3.4	5.4	4.5	4.4	688.3	842.4
60.1	104.0	38.2	51.8	6.9	10.3	10.0	10.5	919.2	1,512.3
43.7	70.2	27.7	35.3	6.0	7.5	6.7	7.3	467.3	632.7
16.4	28.0	10.5	14.9	0.9	2.7	3.3	3.0	337.5	563.9
—	29.0	—	14.5	—	4.0	—	4.1	—	611.4
4.1	1.7	3.0	5.3	3.0	2.6	0.6	2.0	100.3	161.3
387.3	593.0	253.1	413.0	58.9	112.0	37.5	71.7	3,810.6	7,636.9
14.6	15.5	11.2	2.1	61.3	59.0	75.6	73.2	301.6	395.6
—	—	—	3.7	—	3.8	—	4.9	1.1	6[illegible].4
378.5	**621.8**	**263.7**	**418.0**	**114.8**	**172.9**	**109.2**	**150.1**	**4,043.2**	**8,067.9**
112.7	132.9	93.9	76.8	46.1	42.4	53.3	37.5	964.2	9[illegible].6
54.4	65.0	22.7	23.6	17.4	15.9	13.0	11.3	316.4	398.5
49.0	29.3	14.6	10.3	9.3	8.2	7.9	4.4	194.5	159.7
3.2	28.2	6.0	12.6	7.6	5.5	4.3	4.8	65.8	206.3
2.2	7.5	2.1	0.7	0.5	2.2	0.8	2.1	54.9	31.4
49.6	49.4	60.4	45.5	22.6	18.0	27.2	16.4	559.5	362.1
8.7	18.5	10.8	7.7	6.1	8.5	13.1	9.8	88.3	153.0
102.3	181.8	74.8	117.3	30.2	51.9	25.7	42.4	899.2	1,564.7
81.8	134.0	62.4	88.9	25.7	38.9	19.9	31.6	740.3	1,154.8
16.7	41.5	9.7	25.0	4.1	11.7	5.0	9.8	91.7	296.1
29.2	43.1	16.2	23.7	9.2	11.9	8.4	11.9	266.9	413.4
25.7	24.7	10.0	10.7	2.2	6.6	1.5	8.3	172.8	151.6
269.9	382.5	194.9	228.5	87.7	112.8	88.9	100.1	2,303.1	3,043.3
108.4	239.3	68.6	189.5	27.0	60.1	20.3	50.0	1,724.9	5,014.1
378.3	621.8	263.5	418.0	114.7	172.9	109.2	150.1	4,028.0	8,057.4
0.2	—	0.2	—	0.1	—	—	—	15.2	10.5

State Budget of the Constituent Republics

(Per cent of total and

Receipts and Expenditures	R.S.F.S.R.			Ukrainian S.S.R			White Russian S.S.R.		
	Per cent of total		1934 in per cent of 1932	Per cent of total		1934 in per cent of 1932	Per cent of total		1934 in per cent of 1932
	1932	1934		1932	1934		1932	1934	
A	1	2	3	4	5	6	7	8	9
A. Receipts	**100.0**	**100.0**	**217.4**	**100.0**	**100.0**	**206.0**	**100.0**	**100.0**	**154.8**
I. Revenue from socialized economy	46.6	52.0	242.5	46.8	56.4	248.2	65.7	65.3	153.9
1. Turnover tax (chiefly industry turnover)	29.3	42.0	312.0	23.4	48.9	429.3	47.7	57.1	185.5
2. Tax from non-commercial operations	—	2.9	—	—	1.8	—	—	1.1	—
3. Agricultural tax (from Collective Farms)	3.9	3.9	216.0	3.1	2.6	174.7	0.9	1.7	286.4
4. Income tax	4.9	1.9	85.4	1.3	0.4	69.0	0.6	0.2	43.8
5. Appropriations to State budget from profits	8.5	1.0	24.7	19.0	2.3	25.3	16.5	5.1	48.0
II. Investments of the general public in State loans, savings banks deposits, etc.	45.6	31.8	151.8	49.2	30.7	128.7	22.9	26.9	181.9
1. Public loans	22.2	12.4	121.7	17.1	10.2	123.5	5.7	4.8	129.1
2. Receipts from obligatory payments	23.4	19.4	180.4	32.1	20.5	131.4	17.2	22.1	199.5
III. Social insurance funds allocated for health protection	—	8.8	—	—	8.1	—	—	3.1	—
IV. Other receipts	3.3	2.9	191.7	2.0	0.6	62.7	1.0	0.6	95.8
Total revenue of Constituent Republic	95.5	95.5	217.4	98.0	95.8	201.4	89.6	95.9	165.8
Subsidies from the All-Union State (Federal) budget	4.4	3.9	191.2	2.0	3.5	355.1	10.4	0.9	12.9
Surplus from budgets of previous years	0.1	0.6	2,427.3	—	0.7	—	—	3.2	—
B. Expenditures	**100.0**	**100.0**	**218.2**	**100.0**	**100.0**	**208.7**	**100.0**	**100.0**	**153.5**
I. National economy	18.0	6.9	83.1	25.8	14.7	118.9	29.2	17.7	92.8
1. Industry and trade	4.1	2.2	116.1	11.3	8.9	164.7	14.0	10.2	111.7
2. Agriculture	12.8	3.6	61.6	12.0	2.6	46.1	12.8	5.3	63.6
3. Other expenditures	1.1	1.1	204.9	2.5	3.2	261.3	2.4	2.2	137.9
II. Allocations for social and cultural purposes	17.7	14.9	183.4	29.5	22.8	161.5	23.7	27.9	181.0
III. Administration	6.5	4.7	159.0	6.7	5.1	159.4	4.6	4.3	144.0
IV. Other and undistributed expenditures	4.6	1.1	51.7	3.7	2.4	136.4	2.3	3.1	205.4
Total net expenditures	46.8	27.6	128.5	65.7	45.0	143.2	59.8	53.0	136.1
V. Transfer of funds to local budgets	53.1	72.3	297.0	32.5	54.9	352.0	40.2	45.4	173.6
Total expenditure of Constituent Republic	99.9	99.9	218.1	98.2	99.9	212.4	100.0	98.4	151.1
VI. Transferred to the All-Union State (Federal) budget	0.1	0.1	444.4	1.8	0.1	5.8	—	1.6	5,700.0

Table 4

of the Soviet Union, as of 1932-1934

per cent of 1932)

Transcaucasian S.F.S.R			Uzbek S.S.R.			Turkmenian S.S.R.			Tadjik S.S.R.			Total for the U.S.S.R.		
Per cent of total		1934 in per cent of 1932	Per cent of total		1934 in per cent of 1932	Per cent of total		1934 in per cent of 1932	Per cent of total		1934 in per cent of 1932	Per cent of total		1934 in per cent of 1932
1932	1934		1932	1934		1932	1934		1932	1934		1932	1934	
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
100.0	100.0	151.4	100.0	100.0	158.5	100.0	100.0	145.4	100.0	100.0	132.4	100 0	100.0	196.8
73.7	69.4	142.5	72.9	76.4	166.4	37.9	51.3	196.7	19.8	33.8	226.3	51.1	55.7	214.5
66.6	63.9	145.3	67.6	71.2	166.9	36.1	49.3	198.6	17.4	31.5	234.8	35 2	47.2	263.5
—	1.3	—	—	0.9	—	—	0.5	—	—	0.7	—	—	2.3	—
0.4	0.7	280.0	2.4	2.1	136.5	0.9	0.2	36.4	0.7	0.7	125.0	3.0	3.1	203.5
0.6	0.5	124.0	0.2	0.5	333.3	—	0.5	—	-	0.2	—	2.9	1.3	86.5
6.1	2.8	70.9	2.7	1.7	102.9	0.9	0.7	118.2	1.3	0.7	73.3	10.0	1.6	31.7
21.7	23.1	161.1	21.8	17.5	126.7	8.6	9.0	152.4	12.8	9.9	102.8	39.1	29.1	146.5
6.7	6.0	134.4	7.4	5.1	109.2	2.8	3.1	158.8	4.0	2.9	97.8	16.7	10.4	122.4
15.0	17.1	173,0	14.4	12.4	135.6	5.8	5.9	149.3	8.8	7.0	105 0	22.4	18.7	164.5
—	4.7	—	—	3.5	—	—	2.3	—	—	2.8	—	—	7.5	—
1.0	0.3	41.5	1.1	1.2	76.7	2.5	1.5	86.7	0.5	1.3	333.3	2.4	2.0	160.8
96.4	97.5	153.1	95.8	98.6	163.2	49.0	64.1	190.2	33.1	47.8	191.2	92.6	94.3	200.4
3.6	2.5	106.2	4.2	0.5	17.6	51.0	33.7	96.2	66.9	48.9	96.8	7.4	4.9	131.2
—	—	—	—	0.9	—	—	2.2	—	—	3.3	—	—	0.8	5,283.3
100.0	100.0	164.3	100.0	100.0	158.5	100.0	100.0	150.6	100.0	100.0	137.5	100.0	100.0	199.5
29.8	21.4	117.9	35.6	18.4	81.8	40.2	24.5	92,0	48.8	25.0	70.4	23.8	11.3	94.8
14.4	10.5	119.5	8.6	5.7	104.0	15.2	9.2	91.4	11.9	7.5	86.9	7.8	4.9	125.9
13.1	7.9	99.6	22.9	10.9	75.3	19.7	10.4	79.6	24.9	11.0	60.3	13.8	4.5	64.7
2.3	3.0	212.6	4.1	1.8	71.3	5.3	4.9	139.3	12.0	6.5	74.8	2.2	1.9	173.3
27.0	29.3	177.7	28.4	28.1	156.8	26.3	30.0	171.9	23.5	28.2	165.0	22.2	19.4	174.0
7.7	6.9	147.6	6.1	5.7	146.3	8.0	6.9	129.3	7.7	7.9	141.7	6.6	5.1	154.9
6.8	3.9	96.1	3.8	2.5	107.0	1.9	3.8	300.0	1.4	5.6	553.3	4.3	1.9	87.7
71.3	61.5	141.7	73.9	54.7	117.2	76.4	65.2	128.6	81.4	66.7	112.6	56.9	37.7	132.1
28.6	38.5	220.8	26.0	45.3	276.2	23.5	34.8	222.6	18.6	33.3	246.3	42.7	62.2	290.7
99.9	100.0	164.4	99.9	100.0	158.6	99.9	100.0	150.7	100.0	100.0	137.5	99.6	99.9	200.0
0.1	—	—	0.1	—	—	0.1	—	—	—	—	—	0.4	0.1	69.1

Local Budgets of Con

(In millions

Receipts and Expenditures	R. S. F.			
	1928-29	1929-30	Special quarter of 1930	1931
A	1	2	3	4
A. Receipts	**1,737.0**	**2,334.7**	**890.8**	**3,423.9**
I. Local revenues	626.1	880.6	494.2	1,931.1
Including:				
1. Municipal enterprises	63.0	88.3	58.2	221.0
2. Municipal services and housing	164.4	204.7	72.6	297.6
3. Industry	102.5	157.6	138.0	544.1
4. Local taxes	149.2	199.5	57.4	192.7
5. Voluntary appropriations by groups of population for special purposes	—	0.2	69.4	239.3
II. State budget revenues assigned direct to local budget	89.5	98.6	38.5	358.4
III. Appropriations from State budget	916.6	1,197.9	244.8	894.6
Including:				
1. Appropriations from State loans	38.3	53.3	11.1	161.5
IV. Loans issued by local Executive Committee	57.1	77.8	24.4	54.6
Total revenue	1,689.3	2.254.9	801.9	3,238.7
Surplus from local budgets of previous years	47.7	79.8	88.9	185.2
Social insurance funds allocated for health protection	—	—	—	—
B. Expenditures	**1,656.9**	**2,252.6**	**751.7**	**3,244.5**
I. National economy	467.8	718.8	139.2	826.4
Including:				
a) Municipal enterprises	54.4	74.6	30.1	177.5
b) Municipal services	206.4	247.8	45.6	272.2
c) Industry	76.3	174.9	26.5	114.5
II. Allocations for social and cultural purposes	724.3	969.1	314.4	1,440.4
Including:				
a) Education	475.7	657.3	231.9	1,064.5
b) Public health and physical culture	197.9	253.2	70.3	320.8
III. Administration, regulation of national economy and administration of measures for social and cultural development	264.6	349.0	98.9	482.1
IV. Expenditures connected with loans	11.6	3.8	14.4	3.1
V. Social insurance of wage-earners and salaried employees	66.4	87.0	20.4	106.4
VI. Other and undistributed expenditures	122.2	124.9	164.4	386.1

Table 5

stituent Republics — Net

of rubles)

S.	R.		Ukrainian	S. S. R.					
1932	1933	1934	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
5	6	7	8	9	10	11	12	13	14
4,182.8	**4,797.9**	**6,509.0**	**420.7**	**710.0**	**224.5**	**910.2**	**1,029.8**	**1,229.2**	**1,618.5**
2,018.9	2,372.4	2,429.9	160.7	343.3	86.3	416.7	473.2	453.8	494.2
202.7	269.1	365.4	41.3	60.8	20.9	84.8	60.9	41.6	73.1
374.4	381.6	370.6	38.8	45.0	13.3	58.7	106.8	110.7	117.7
140.0	363.1	332.8	13.8	32.2	1.8	27.7	25.0	19.3	52.1
308.9	348.1	367.4	37.9	54.5	12.1	64.4	70.9	82.6	98.0
327.4	344.0	302.7	—	57.9	10.8	84.7	97.9	89.5	80.4
596.0	530.1	563.8	19.2	19.9	5.8	91.7	200.8	214.0	225.5
1,262.5	1,673.8	3,004.7	192.5	304.1	62.9	278.7	231.1	503.0	766.9
314.9	345.3	337.7	8.9	17.0	4.1	55.8	92.5	92.9	88.7
124.9	65.3	74.7	34.5	25.4	3.4	18.3	26.2	23.3	23.1
4,002.3	4,641.6	6,073.1	406.9	692.7	158.4	805.4	931.3	1,194.1	1,509.7
180.5	156.3	121.1	13.8	17.3	66.1	104.8	98.5	35.1	18.7
—	—	314.8	—	—	—	—	—	—	90.1
4,029.3	**4,677.2**	**6.335.6**	**402.9**	**645.8**	**193.0**	**810.2**	**1,000.7**	**1,212.7**	**1,594.9**
1,161.6	1,142.1	1,454.8	113.8	196.0	29.5	202.6	232.2	244.8	301.3
180.7	293.0	393.3	37.7	40.6	8.5	49.9	33.9	34.9	47.6
493.8	353.9	413.7	29.2	56.3	9.3	67.9	123.3	110.2	134.3
179.0	181.5	231.8	15.9	27.2	0.9	12.6	9.4	8.7	32.1
1,948.8	2,365.0	3,374.9	166.0	258.4	78.1	371.4	504.0	673.5	917.3
1,453.4	1,780.5	2,329.3	114.0	182.5	61.4	275.7	388.0	531.5	656.2
436.0	523.0	975.4	40.6	62.6	14.0	82.3	102.4	128.2	248.1
554.6	643.7	906.5	61.2	93.4	27.6	119.2	159.7	167.3	219.8
33.1	133.5	135.9	16.8	19.4	4.3	6.6	8.0	5.9	19.2
143.4	183.0	222.3	15.1	20.1	6.9	28.2	34.6	47.4	58.4
187.8	209.9	241.2	30.0	58.5	46.6	82.2	62.2	73.8	78.9

Receipts and Expenditures	White Russian			
	1928-29	1929-30	Special quarter of 1930	1931
A	15	16	17	18
A. Receipts	**56.8**	**92.9**	**37.5**	**128.1**
I. Local revenues	13.0	16.8	8.9	41.7
Including:				
1. Municipal enterprises	0.5	0.8	0.6	2.9
2. Municipal services and housing	2.6	2.3	0.5	2.7
3. Industry	0.5	0.5	1.0	6.8
4. Local taxes	5.7	7.7	1.0	4.9
5. Voluntary appropriations by groups of population for special purposes	—	—	3.6	13.7
II. State budget revenues assigned direct to local budget	2.3	2.6	0.7	12.2
III. Appropriations from State revenues	40.1	70.0	15.7	62.3
Including:				
1. Appropriations from State loans	1.0	1.5	0.3	4.1
IV. Loans issued by local Executive Committee	0.3	1.0	0.1	0.5
Total revenue	55.7	90.4	25.4	116.7
Surplus from local budgets of previous years	1.1	2.5	12.1	11.4
Social insurance funds allocated for health protection	—	—	—	—
B. Expenditures	**54.2**	**80.5**	**33.9**	**111.1**
I. National economy	11.8	23.5	5.5	27.6
Including:				
a) Municipal enterprises	2.0	4.5	1.7	7.0
b) Municipal services	3.6	6.4	1.1	5.9
c) Industry	2.0	6.2	1.4	7.2
II. Allocations for social and cultural purposes	27.7	40.3	14.5	59.2
Including:				
a) Education	20.0	29.9	11.6	46.9
b) Public health and physical culture	5.8	8.1	2.4	10.6
III. Administration, regulation of national economy and administration of measures for social and cultural development	7.2	9.1	3.3	15.0
IV. Expenditures connected with loans	0.5	0.9	0.3	0.9
V. Social insurance of wage-earners and salaried employees	2.3	3.0	0.3	4.1
VI. Other and undistributed expenditures	4.7	3.7	10.0	4.3

Table 5 (Continued)

S. S. R.			Transcaucasian S. F. S. R.						
1932	1933	1934	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
19	20	21	22	23	24	25	26	27	28
190.4	**207.3**	**266.8**	**110.1**	**140.0**	**45.9**	**231.9**	**342.1**	**412.0**	**511.7**
51.7	64.2	60.9	50.1	72.7	21.8	106.7	170.3	184.8	188.4
2.8	4.4	2.4	13.3	17.3	7.1	30.5	26.9	31.5	48.5
2.8	2.8	3.0	13.5	15.4	4.0	18.1	29.4	43.7	44.0
2.4	3.3	0.4	0.5	1.2	0.7	5.3	7.5	7 9	10.2
4.9	6.4	6.5	11.7	14.5	2.9	13.5	21.3	27.1	27.5
21.2	25.8	24.4	—	—	1.3	14.9	21.0	26.4	25.3
20.9	20.6	22.1	5.1	3.6	1.2	23.4	68.9	68.6	76.1
101.0	103.6	153.8	44.9	52.5	18.1	85.7	77.5	135.6	212.4
9.2	10.2	10.3	1.8	2.5	0.4	10.9	17.4	19.8	21.5
0.4	0.5	0.5	7.5	8.5	1.4	8.9	17.7	16.1	22.9
174.0	188.9	237.3	107.6	137.3	42.5	224.7	334.4	405.1	499.8
16.4	18.4	20.3	2.5	2.7	3.4	7.2	7.7	6.9	7.2
—	—	9.2	—	—	—	—	—	—	4.7
170.7	**185.5**	**246.2**	**107.4**	**137.2**	**39.2**	**224.6**	**334.8**	**406.1**	**506.9**
49.1	34.0	41.4	34.4	45.0	10.4	63.3	108.9	118.7	141.7
6.7	4.2	4.3	11.1	13.6	3.4	17.9	27.1	32.3	46.4
18.1	10.2	16.1	15.1	17.8	4.7	28.8	56.4	57.5	60.4
10.2	6.9	5.0	2.3	2.9	0.7	1.9	5.7	9.9	9.3
90.1	111.3	149.0	41.3	50.4	17.7	102.3	153.4	186.6	234.6
72.9	90.7	112.0	28.7	35.2	12.3	75.3	114.1	142.2	170.5
15.2	18.1	34.0	11.3	13.8	5.1	25.2	37.5	42.1	61.6
15.6	20.2	28.4	15.9	20.9	7.1	33.9	41.7	53.6	72.4
0.8	0.9	0.6	5.6	6.3	2.1	3.5	2.0	8.4	12.4
5.6	7.3	9.3	4.4	5.5	0.5	7.1	9.7	14.5	17.9
9.5	11.8	17.5	5.8	9.1	1.4	14.5	19.1	24.3	27.9

Receipts and Expenditures	Uzbek			
	1928-29	1929-30	Special quarter of 1930	1931
A	29	30	31	32
A. Receipts	**61.0**	**86.2**	**31.2**	**175.7**
I. Local revenues	20.0	30.1	10.8	49.0
Including:				
1. Municipal enterprises	1.1	1.9	1.1	5.3
2. Municipal services and housing	9.4	10.9	3.3	16.3
3. Industry	0.4	0.4	0.1	1.5
4. Local taxes	5.3	7.8	3.2	8.4
5. Voluntary appropriations by groups of population for special purposes	—	—	1.0	6.7
II. State budget revenues assigned direct to local budget	4.0	8.6	3.0	17.0
III. Appropriations from State budget	32.1	41.1	15.0	93.3
Including:				
1. Appropriations from State loans	0.9	1.8	0.3	14.8
IV. Loans issued by local Executive Committtee	2.9	3.8	0.1	3.5
Total revenue	59.0	83.6	28.9	162.8
Surplus from local budgets of previous years	2.0	2.6	2.3	12.9
Social insurance funds allocated for health protection	—	—	—	—
B. Expenditures	**57.7**	**82.1**	**28.2**	**161.9**
I. National economy	13.3	26.0	4.5	39.6
Including:				
a) Municipal enterprises	2.4	4.5	0.7	8.4
b) Municipal services	4.6	8.6	1.9	17.0
c) Industry	1.2	1.5	0.2	0.6
II. Allocations for social and cultural purposes	24.2	32.8	14.9	76.5
Including:				
a) Education	14.6	20.3	9.9	53.9
b) Public health and physical culture	7.9	10.5	4.2	19.7
III. Administration, regulation of national economy and administration of measures for social and cultural development	13.9	16.0	6.4	27.1
IV. Expenditures connected with loans	0.7	0.6	0.9	2.4
V. Social insurance of wage-earners and salaried employees	2.6	3.5	1.0	5.2
VI. Other and undistributed expenditures	3.0	3.2	0.5	11.1

S. S. R.			Turkmenian S. S. R.						
1932	1933	1934	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
33	34	35	36	37	38	39	40	41	42
209.0	222.2	271.4	17.0	26.4	14.7	44.8	58.1	57.7	95.7
62.2	60.1	48.3	5.3	7.2	5.4	8.8	22.3	11.9	48.7
7.9	4.7	5.7	0.6	1.0	0.2	0.1	—	0.9	1.3
19.1	22.9	20.2	2.2	2.1	0.6	2.3	—	2.9	4.5
1.3	0.3	—	—	0.1	0.1	0.1	—	—	—
10.5	7.9	4.6	1.4	1.5	0.4	1.4	1.6	2.7	3.0
13.5	13.7	10.4	—	—	0.7	0.9	2.6	1.3	1.9
49.1	41.0	34.4	1.5	1.5	0.9	3.0	12.3	7.5	9.5
72.5	112.1	179.6	8.7	15.9	5.8	29.3	20.3	35.2	28.3
15.8	14.3	13.3	0.4	0.7	0.1	1.8	4.3	2.3	3.2
10.9	0.6	—	0.8	1.3	0.2	0.3	0.5	0.8	2.9
194.7	213.8	262.3	16.3	25.9	12.3	41.4	55.4	55.4	89.4
14.3	8.4	9.1	0.7	0.5	2.4	3.4	2.7	2.3	3.9
—	—	no data	—	—	—	—	—	—	2.4
200.4	211.1	261.4	16.4	24.4	8.1	42.0	58.1	50.4	92.8
48.1	37.3	52.2	5.3	6.8	1.3	7.7	9.1	8.5	19.4
9.4	5.5	7.7	0.9	1.0	0.2	0.4	0.3	2.3	7.2
24.4	16.1	22.7	1.4	2.4	0.5	3.2	1.3	3.5	6.7
0.4	0.4	0.9	0.7	0.5	—	—	—	—	—
105.6	117.7	148.7	6.1	10.7	3.5	23.2	35.3	26.7	49.4
75.0	82.9	101.0	3.5	7.3	2.5	17.0	26.3	19.0	33.3
28.9	32.6	45.7	2.1	3.0	0.8	5.8	8.2	7.3	15.5
29.2	31.1	37.5	2.7	4.2	1.4	5.7	8.2	9.6	15.5
4.3	10.5	2.0	0.3	0.5	0.3	3.2	—	0.9	1.3
8.0	9.1	10.5	0.7	0.8	0.3	1.3	1.9	2.3	3.0
5.2	5.4	10.5	1.3	1.4	1.3	0.9	3.6	2.4	4.2

Receipts and Expenditures	Tadjik 1928-29	Tadjik 1929-30	Tadjik Special quarter of 1930	Tadjik 1931
A	43	44	45	46
A. Receipts	9.3	13.2	9.0	44.7
I. Local revenues	2.3	2.7	1.7	9.2
Including:				
1. Municipal enterprises	0.1	0.1	—	0.1
2. Municipal services and housing	0.6	1.0	0.4	2.1
3. Industry	—	—	—	—
4. Local taxes	0.4	0.4	0.2	0.6
5. Voluntary appropriations by groups of population for special purposes	—	—	0.1	2.1
II. State budget revenues assigned direct to local budget	0.3	0.7	0.6	4.5
III. Appropriations from State budget	5.4	8.3	4.8	22.6
Including:				
1. Appropriations from State loans	0.2	0.3	0.2	3.0
IV. Loans issued by local Executive Committee	1.1	1.2	0.5	5.8
Total revenue	9.1	12.9	7.6	42.1
Surplus from local budgets of previous years	0.2	0.3	1.4	2.6
Social insurance funds allocated for health protection	—	—	—	—
B. Expenditures	9.1	11.7	6.6	40.5
I. National economy	3.0	2.7	1.5	11.9
Including:				
a) Municipal enterprises	0.4	0.4	0.1	2.3
b) Municipal services	1.1	1.3	1.0	7.1
c) Industry	—	—	—	0.1
II. Allocations for social and cultural purposes	2.9	4.1	3.0	16.7
Including:				
a) Education	1.9	2.4	1.9	10.6
b) Public health and physical culture	0.9	1.6	1.1	5.9
III. Administration, regulation of national economy and administration of measures for social and cultural development	2.4	2.9	1.6	8.0
IV. Expenditures connected with public loans	0.1	0.8	0.2	1.7
V. Social insurance of wage-earners and salaried employees	0.3	0.5	—	0.8
VI. Other and undistributed expenditures	0.4	0.7	0.3	1.4

S. S. R.			Total for the U. S. S. R.						
1932	1933	1934	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
47	48	49	50	51	52	53	54	55	56
52.6	**61.9**	**68.9**	**2,411.9**	**3,403.4**	**1,253.6**	**4,959.3**	**6,064.8**	**6,988.2**	**9,342.0**
13.4	13.9	8.6	877.5	1,353.4	629.1	2,563.2	2,812.0	3,161.1	3,279.0
—	0.3	0.4	119.9	170.2	88.1	344.7	301.2	352.5	496.8
3.1	2.4	1.6	231.5	281.4	94.7	397.8	535.6	567.0	561.6
0.1	0.2	0.1	117.7	192.0	141.7	585.5	176.3	394.1	395.6
0.8	1.8	1.8	211.6	285.9	77.2	285.9	418.9	476.6	508.8
3.1	3.7	2.4	—	58.1	86.9	362.3	486.7	504.4	447.5
11.5	7.5	5.1	121.9	135.5	50.7	510.2	959.5	889.3	936.5
20.7	36.7	47.6	1,240.3	1,689.8	367.1	1,466.5	1,785.6	2,600.0	4,493.3
3.7	3.4	2.8	51.5	77.1	16.5	251.9	457.8	488.2	477.5
3.9	1.8	1.3	104.2	119.0	30 1	91.9	184.5	108.4	125.4
49.5	59.9	62.6	2,343.9	3,297.7	1,077.0	4,631.8	5,741.6	6,758.8	8,734.2
3.1	2.0	4.0	68.0	105.7	176.6	327.5	323.2	229.4	184.3
—	—	2.3	—	—	—	—	—	—	423.5
50.4	**57.2**	**67.6**	**2,304.6**	**3,234.3**	**1,060.7**	**4,634.8**	**5,844.4**	**6,800.2**	**9,105.4**
11.4	11.3	13.1	649.4	1,018.8	191.9	1,179.1	1,620.4	1,596.7	2,023.9
2.3	2.0	2.3	108.9	139.2	44.7	263.4	260.4	374.2	508.8
5.3	3.8	3.9	261.4	340.6	64.1	402.1	722.6	555.2	657.8
—	0.7	0.3	98.4	213.2	29.7	136.9	204.7	208.1	279.4
21.5	24.7	32.0	992.5	1,365.8	446.1	2,089.7	2,858.7	3,505.5	4,905.9
14.7	17.3	21.1	658.4	934.9	331.5	1,543.9	2,144.4	2,664.1	3,423.4
6.8	7.2	10.7	266.5	352.8	97.9	470.3	635.0	758.5	1,391.0
10.3	12.2	13.4	367.9	495.5	146.3	691.0	819.3	937.7	1,293.5
3.4	3.6	2.8	35.6	32.3	22.5	21.4	51.6	163.7	174.2
1.3	2.3	2.2	91.8	120.4	29.4	153.1	204.5	265.9	323.6
2.5	3.1	4.1	167.4	201.5	224.5	500.5	289.9	330.7	384.3

Table 6

Local Budgets of Constituent Republics—Net

(Per cent of total)

Receipts and Expenditures	R. S. F. S. R.				Ukrainian S.S.R.				White Russian S.S.R.				Transcaucasian S.F.S.R.			
	1924-25	1928-29	1933	1934	1924-25	1928-29	1933	1934	1924-25	1928-29	1933	1934	1924-25	1928-29	1933	1934
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A. Receipts	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
I. Local revenues	41.9	36.0	49.4	37.3	45.9	38.2	36.9	30.5	29.4	22.9	31.0	22.8	50.3	45.5	44.9	36.8
Including:																
1. Local taxes	9.5	8.6	7.2	5.6	7.2	9.0	6.7	6.1	8.3	10.0	3.1	2.4	11.6	10.6	6.6	5.4
2. Voluntary appropriations by groups of population for special purposes	—	—	7.2	4.7	—	—	7.3	5.0	—	—	12.5	9.1	—	—	6.4	4.9
II. State budget revenues assigned direct to local budgets	23.7	5.1	11.0	8.7	21.6	4 6	17.4	13.9	19.1	4.1	9.9	8.3	18.3	4.6	16.6	14.9
III. Appropriations from State budget	30.5	52.9	34.9	46.2	24.3	45.7	40.9	47.4	44.8	70.6	50.0	57.6	25.5	40.8	32.9	41.5
IV. Loans issued by local Executive Committee	1.7	3.3	1.4	1.1	4.9	8.2	1.9	1.4	6.2	0.5	0.2	0.2	4.8	6.8	3.9	4.5
Total revenue	97.8	97.3	96.7	93.3	96.7	96.7	97.1	93.2	99.5	98.1	91.1	88.9	98.9	97.7	98.3	97.7
Surplus from local budgets of previous years	2.2	2.7	3.3	1.9	3 3	3.3	2.9	1.2	0.5	1.9	8.9	7.6	1.1	2.3	1.7	1.4
Social insurance funds allocated for health protection	—	—	—	4.8	—	—	—	5.6	—	—	—	3.5	—	—	—	0.9
B. Expenditures	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
I. National economy	16.9	28.2	24.4	23.0	21.2	28.2	20.2	18.9	10.6	21.8	18.3	16.8	18.3	32.0	29.2	28.0
II. Allocations for social and cultural purposes	41.7	43.7	50.6	53.3	36.6	41.2	55.5	57.5	40.4	51.1	60.0	60.5	37.3	38.5	45.9	46.3
III. Administration	29.1	16.0	13.8	14.3	29.0	15.2	13.8	13.8	20.2	13.5	10.9	11.5	33.0	14.8	13.2	14.3
IV. Expenditures connected with public loans	1.3	0.7	2.8	2.1	2.1	4.2	0.5	1.2	0.5	0.9	0.5	0.3	1.9	5.2	2.1	2.4
V. Social insurance of wage-earners and salaried employees	4.6	4.0	3.9	3.5	4.2	3.7	3.9	3.7	4.4	4.2	3.9	3.8	4.3	4.1	3.6	3.5
VI. Other and undistributed expenditures	6.4	7.4	4.5	3.8	6.9	7.5	6.1	4.9	23.9	8.7	6.4	7.1	5.2	5.4	6.0	5.5

Table 6 (Continued)

Receipts and Expenditures	Uzbek S.S.R.				Turkmenian S.S R.				Tadjik S.S.R.			Total for the U.S.S.R.			
	1924-25	1928-29	1933	1934	1924-25	1928-29	1933	1934	1928-29	1933	1934	1924-25	1928-29	1933	1934
A	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
A. Receipts	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
I. Local revenues	48.0	32.8	27.0	17.8	37.8	31.2	20.6	50.9	24.7	22.5	12.5	42.5	36.4	45.2	35.1
Including:															
1. Local taxes	8.1	8.7	3.5	1.7	6.7	8.3	4.7	3.1	4.3	2.9	2.6	9.1	8.8	6.8	5.4
2. Voluntary appropriations by groups of population for special purposes	—	—	6.2	3.8	—	—	2.3	2.0	—	6.0	3.5	—	—	7.2	4.8
II. State budget revenues assigned direct to local budgets	20.8	6.5	18.4	12.7	22.2	8.8	13.0	9.9	3.2	12.1	7.4	23.2	5.1	12.7	10.0
III. Appropriations from State budget	28.9	52.7	50.5	66.1	40.0	51.2	61.0	29.6	58.1	59.3	69.1	29.5	51.4	37.2	47.1
IV. Loans issued by local Executive Committee	0.6	4.7	0.3	—	—	4.7	1.4	3.0	11.8	2.9	1.9	2.5	4.3	1.6	1.3
Total revenue	98.3	96.7	96.2	96.6	100.0	95.9	96.0	93.4	97.8	96.8	90.9	97.7	97.2	96.7	93.5
Surplus from local budgets of previous years	1.7	3.3	3.8	3.4	—	4.1	4.0	4.1	2.2	3.2	5.8	2.3	2.8	3.3	2.0
Social insurance funds allocated for health protection	—	—	—	—	—	—	—	2.5	—	—	3.3	—	—	—	4.5
B. Expenditures	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
I. National economy	15.3	23.1	17.7	20.0	14.0	32.3	16.9	20.9	32.9	19.8	19.4	17.6	28.2	23.5	22.2
II. Allocations for social and cultural purposes	35.6	41.9	55.8	56.9	30.2	37.2	53.0	53.3	31.9	43.2	47.3	40.4	43.1	51.5	53.9
III. Administration	40.5	24.1	14.7	14.3	46.5	16.5	19.0	16.7	26.4	21.3	19.8	29.4	16.0	13.8	14.2
IV. Expenditures connected with public loans	—	1.2	5.0	0.8	2.3	1.8	1.8	1.4	1.1	6.3	4.1	1.5	1.5	2.4	1.9
V. Social insurance of wage-earners and salaried employees	4.9	4.5	4.3	4.0	4.7	4.3	4.5	3.2	3.3	4.0	3.3	4.4	4.0	3.9	3.6
VI. Other and undistributed expenditures	3.7	5.2	2.5	4.0	2.3	7.9	4.8	4.5	4.4	5.4	6.1	6.7	7.2	4.9	4.2

Table 7

Aggregate Budget (State and Local)

(In millions of rubles)

Receipts and Expenditures	1928-29	1929-30	Special quarter of 1930	1931	1932	1933	1934
A	1	2	3	4	5	6	7
A. Receipts	**8,116.1**	**13,178.3**	**4,878.2**	**23,401.2**	**34,561.7**	**44,402.2**	**55,068.3**
I. Revenue from socialized economy	6,098.6	10,447.1	3,843.1	18,796.6	27,750.3	35,086.4	44,594.5
Including:							
1. Turnover tax (chiefly industry turnover)	3,146.1	5,354.1	2,172.0	10,601.8	17,693.3	23,166.5	30,242.0
2. Special commodity reserves	—	299.2	248.3	1,070.2	1,901.3	3,893.7	7,433.1
3. Appropriations to State budget from profits	641.3	1,501.8	464.9	1,631.2	1,657.4	2,071.9	2,375.3
4. Transport and communications system	1,206.1	1,762.5	523.2	2,324.5	2,836.2	2,768.7	1,543.1
5. State loans	454.6	622.4	143.6	1,644.4	1,492.4	1,211.5	913.3
II. Investments of the general public in State loans, savings banks deposits, etc.	1,355.8	1,825.6	787.4	3,774.1	5,722.8	7,012.4	7,465.7
Including:							
1. Public loans	270.2	656.0	212.4	1,616.4	2,370.5	3,176.3	3,343.8
2. Receipts from obligatory payments	979.4	972.1	396.5	1,704.1	2.699.2	3,309.6	3,621.4
3. Voluntary appropriations by groups of population for special purposes	85.0	164.7	178.5	362 3	487.0	504.4	447.5
III. Miscellaneous	661.7	905.6	247.7	830.5	1,088.6	2,303.4	2,311.8
IV. Social insurance funds allocated for health protection	—	—	—	—	—	—	696.3
B. Expenditures	**8,023.8**	**12,609.4**	**4,749.2**	**23,367.1**	**34,401.6**	**39,904.6**	**52,398.0**
I. National economy	4,112.1	7,087.4	2,800.4	16,506.8	24,781.6	26,710.6	32,257.1
Including:							
1. Industry and electrification	1,250.2	2,487.9	1,023.9	7,915.1	12,772.7	13,257.1	12,925.1
2. People's Commissariat of Food Industry, trade and supply organizations	257.6	689.5	342.6	1,992.0	2,789.1	3,110.6	4,405.8
3. Agriculture	670.9	1,315.5	614.8	2,910.4	3,942.0	4,133.6	6,408.2
4. Transport and communications system	1,393.4	1,902.9	671.0	2,950.8	4,072.5	3,762.7	6,050.7
5. Municipal services and housing construction	450.1	571.6	109.2	690.2	1,079.1	1,017.6	1,571.1
II. Allocations for social and cultural purposes	1,495.9	2,207.4	742.3	3,373.8	4,577.4	5,840.0	8,146.8
Including: Education	1,085.4	1,678.4	607.8	2,709.9	3,683.6	4,725.0	6,161.0
III. Administration and national defense	1,588.1	1,871,4	680.5	2,398.2	2,838.3	3,370.8	8,094.2
IV. Expenditures connected with State loans	317.5	405.7	74.9	408.3	961.8	1,436.7	2,050.9
V. Other expenditures	510.2	1,037.5	451.1	680.0	1,242.5	2,546.5	1,849.0

Table 8

Aggregate Budget (State and Local)

(Per cent of total and per cent of 1928-29)

Receipts and Expenditures	Per cent of total						Per cent of 1928-29				
	1928-29	1929-30	1931	1932	1933	1934	1929-30	1931	1932	1933	1934
A	1	2	3	4	5	6	7	8	9	10	11
A. Receipts	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**162.4**	**288.3**	**425.8**	**547.1**	**678.5**
I. Revenue from socialized economy	75.2	79.3	80.3	80.3	79.0	81.0	171.3	308.2	455.0	575.3	731.2
Including:											
1. Turnover tax (chiefly industry turnover) . .	38.8	40.6	45.3	51.2	52.2	54.9	170.2	337.0	562.4	736.4	961.3
2. Special commodity reserves	—	2.3	4.6	5.5	8.8	13.5	—	—	—	—	—
3. Appropriations to State budget from profits . .	7.9	11.4	7.0	4.8	4.7	4.3	234.2	254.4	258.4	323.4	370.4
4. Transport and communications system	14.9	13.4	9.9	8.2	6.2	2.8	146.1	192.7	235.2	229.6	127.9
5. State loans	5.6	4.7	7.0	4.3	2.7	1.7	136.9	361.7	328.3	266.5	200.9
II. Investments by general public in State loans, savings banks deposits, etc.	16.7	13.8	16.1	16.5	15.8	13.5	134.7	278.4	422.1	517.2	550.6
Including:											
1. Public loans	3.3	5.0	6.9	6.9	7.2	6.1	242.8	598.2	877.3	1,175.5	1,237.5
2. Receipts from obligatory payments	12.1	7.4	7.3	7.8	7.5	6.6	99.3	174.0	275.6	337.9	369.8
3. Voluntary appropriations by groups of population for special purposes . .	1.0	1.2	1.6	1.4	1.1	0.8	193.8	426.2	572.9	593.4	526.5
III. Miscellaneous	8.1	6.9	3.6	3.2	5.2	4.2	136.9	125.5	164.5	348.1	349.4
IV. Social insurance funds allocated for health protection	—	—	—	—	—	1.3	—	—	—	—	—
B. Expenditures . .	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**157.1**	**291.2**	**428.7**	**497.3**	**653.0**
I. National economy	51.2	56.2	70.6	72.0	67.0	61.6	172.4	401.4	602.7	649.6	784.4
Including:											
1. Industry and electrification	15.6	19.7	33.9	37.1	33.2	24.7	199.0	633.1	1,021.7	1,060.4	1,033.8
2. People's Commissariat of Food Industry, trade and supply organizations	3.2	5.5	8.5	8.1	7.8	8.4	267.7	773.3	1,082.7	1,207.5	1,710.3
3. Agriculture	8.4	10.4	12.5	11.5	10.4	12.2	196.1	433.8	587.6	616.1	955.2
4. Transport and communications system	17.4	15.1	12.6	11.8	9.4	11.5	136.6	211.8	292.3	270.0	434.2
5. Municipal services and housing construction .	5.6	4.5	3.0	3.1	2.6	3.0	127.0	153.3	239.7	226.1	349.1
II. Allocations for social and cultural purposes . .	18.6	17.5	14.5	13.3	14.6	15.6	147.6	225.5	306.0	390.4	544.6
Including: Education	13.5	13.3	12.0	10.7	11.8	11.8	154.6	249.7	339.4	435.3	567.6
III. Administration and national defense	19.8	14.9	10.2	8.3	8.4	15.4	117.8	151.0	178.7	212.3	509.7
IV. Expenditures connected with State loans . . .	4.0	3.2	1.8	2.8	3.6	3.9	127.8	128.6	302.9	452.5	646.0
V. Other expenditures . .	6.4	8.2	2.9	3.6	6.4	3.5	203.4	133.3	243.5	499.1	362.4

State Savings Banks, Number of Depositors and Amount of Savings Deposits

Republics	As of October 1, 1928 [1]					As of October 1, 1929				
	Number of savings banks	Number of depositors (in thousands)		Savings deposits (in thousands of rubles)		Number of savings banks	Number of depositors (in thousands)		Savings deposits (in thousands of rubles)	
		Physical persons	Juridical persons	Physical persons	Juridical persons		Physical persons	Juridical persons	Physical persons	Juridical persons
A	1	2	3	4	5	6	7	8	9	10
U. S. S. R., Total	**16,438**	**3,523.2**	**265.2**	**213,236.8**	**122,569.3**	**20,364**	**7,172.1**	**433.0**	**315,834.0**	**180,241.0**
Cities	6,919	2,562.6	136.7	183,527.7	61,977.1	8,787	4,677.7	204.5	260,790.0	**84,883.0**
Rural districts	9,519	960.6	128.5	29,709.1	60,592.2	11,577	2,494.4	228.5	55,044.0	**95,358.0**
R.S.F.S.R., Total	11,947	2,668.6	194.8	164,408.6	87,645.2	12,536	4,921.5	303.3	228,318.0	**121,961.0**
Cities	4,951	1,951.3	97.9	141,734.1	44,899.0	5,508	3,243.9	142.4	190,844.0	**55,599.0**
Rural districts	6,996	717.3	96.9	22,674.5	42,746.2	7,028	1,677.6	160.9	37,474.0	**66,362.0**
Ukrainian S.S.R., Total	3,020	598.1	52.3	30,175.9	28,166.1	2,695	1,104.2	75.7	43,371.0	**34,516.0**
Cities	1,133	406.4	25.4	24,641.1	12,061.4	1,317	681.4	32.9	34,267.0	**13,869.0**
Rural districts	1,887	191.7	26.9	5,534.8	16,104.7	1,378	422.8	42.8	9,104.0	**20,647.0**
White Russian S.S.R., Total	467	100.8	8.7	4,537.3	2,394.0	538	211.6	12.8	7,860.0	**4,065.0**
Cities	191	67.2	5.9	3,794.7	1,506.4	281	118.9	6.2	5,794.0	**1,921.0**
Rural districts	276	33.6	2.8	742.6	887.6	257	92.7	6.6	2,066.0	**2,144.0**
Transcaucasian S.F.S.R., Total	408	48.4	4.6	4,285.2	2,217.0	577	135.4	8.5	6,870.0	**2,697.0**
Cities	254	45.35	4.0	4,088.3	1,889.3	295	118.1	5.9	6,392.0	**1,763.0**
Rural districts	154	3.05	0.6	196.9	327.7	282	17.3	2.6	478.0	**934.0**
Uzbek S.S.R., Total	440	73.0	3.1	7,757.6	1,554.0	639	171.2	4.8	12,370.0	**1,997.0**
Cities	274	64.18	2.5	7,280.29	1,109.4	252	102.2	1.3	10,750.0	**853.0**
Rural districts	166	8.82	0.6	477.31	444.6	387	69.0	3.5	1,620.0	**1,144.0**
Turkmenian S.S.R., Total	156	34.3	1.7	2,072.2	593.0	160	47.6	2.2	2,636.0	**567.0**
Cities	116	28.18	1.0	1,989.17	511.6	142	33.8	1.5	2,489.0	**398.0**
Rural districts	40	6.12	0.7	83.03	81.4	18	13.8	0.7	147.0	**169.0**
Tadjik S.S.R., Total	—	—	—	—	—	77	21.3	0.5	1,460.0	**316.0**
Cities	—	—	—	—	—	51	7.9	0.3	1,106.0	**175.0**
Rural districts	—	—	—	—	—	26	13.4	0.2	354.0	**141.0**
Railway Savings Banks, Total	—	—	—	—	—	3,142	559.3	25.2	12,949.0	**14,122.0**
Cities	—	—	—	—	—	941	371.5	14.0	9,148.0	**10,305.0**
Rural districts	—	—	—	—	—	2,201	187.8	11.2	3,801.0	**3,817.0**

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[1] Railway Savings Banks included in totals for Constituent Republics.

Table 9 (Continued)

Republics	As of October 1, 1930					As of October 1, 1931				
	Number of savings banks	Number of depositors (in thousands)		Savings deposits (in thousands of rubles)		Number of savings banks	Number of depositors (in thousands)		Savings deposits (in thousands of rubles)	
		Physical persons	Juridical persons	Physical persons	Juridical persons		Physical persons	Juridical persons	Physical persons	Juridical persons
A	11	12	13	14	15	16	17	18	19	20
U. S. S. R., Total	**28,054**	**12,323.7**	**578.6**	**501,947.6**	**251,842.6**	**35,184**	**13,561.8**	**753.8**	**494,409.2**	**313,179.7**
Cities	11,710	7,927.2	256.7	401,533.3	140.990.7	12,122	8,333.6	364.2	364,425.2	159,829.0
Rural districts	16,344	4,396.5	321.9	100,414.3	110,851.9	23,062	5,228 2	389.6	129,984.0	153,350.7
R.S.F.S.R., Total	17,274	8,292.4	387.5	360,567.1	176.194.5	20 848	9,046.6	541.0	348,414.2	193,793.7
Cities	7,529	5,446.9	163.9	291,689.0	95,419.8	7,513	5,657.8	262.0	255,247.2	93,305.0
Rural districts	9,745	2,845.5	223.6	68,878.1	80,774.7	13.335	3,388.8	279.0	93,167.0	100,488.7
Ukrainian S.S.R., Total	4.452	2,032.8	107.1	63,802.5	33,419.2	7,125	2,302.8	121.2	62,790.0	73,711.0
Cities	1,984	1,236.4	46.8	50,107.1	18,328.8	2,338	1,349.9	52.5	47,668.0	39,098.0
Rural districts	2,468	796.4	60.3	13,695.4	15,090.4	4,787	952.9	68.7	15,122.0	34,613.0
White Russian S.S.R., Total	912	382.7	19.4	11,586.0	6,723.0	1,125	421.7	21.3	11,816.0	9,410.0
Cities	391	217.9	9.3	8,226.9	3,326.1	344	232.1	10.3	8,227.0	4,466.0
Rural districts	521	164.8	10.1	3,359.1	3,396.9	781	189.6	11.0	3,589.0	4,944.0
Transcaucasian S.F.S.R., Total	773	231.1	13.6	12,401.7	7,102.5	904	251.7	14.7	13,221.0	5,200.0
Cities	396	193.7	9.5	10,640.4	4,446.1	395	207.6	10.3	11,265.0	3,179.0
Rural districts	377	37.4	4.1	1,761.3	2,656.4	509	44.1	4.4	1,956.0	2,021.0
Uzbek S.S.R., Total	717	331.9	11.3	18,739.6	4,350.1	953	415.0	14.2	20,064.0	10,327,0
Cities	324	160.1	5.3	14.855.5	2,216.2	333	192.8	6.7	14,848.0	5,060.0
Rural districts	393	171.8	6.0	3,884.1	2,133.9	620	222.2	7.5	6,216.0	5,267.0
Turkmenian S.S.R., Total	198	92.0	3.3	3,989.1	1,084.3	268	98.6	3.6	4,841.0	896.0
Cities	99	52.0	2.7	3,352.6	657.2	160	55.2	2.9	3,845.0	530.0
Rural districts	99	40.0	0,6	636.5	427.1	108	43.4	0.7	996.0	366.0
Tadjik S.S.R., Total	118	64.9	0.6	4,153.7	878.9	200	91.9	0.9	5,160.0	413.0
Cities	55	25.0	0.5	3,267.9	470.2	90	33.8	0.7	3,229.0	214.0
Rural districts	63	39.9	0.1	385.8	408.7	110	58.1	0.2	1,868.0	199.0
Railway Savings Banks, Total	3,610	895.9	35.8	26,707.9	22,090.1	3,761	933 5	36.9	28,103.0	19,429.0
Cities	932	595.2	18.7	19,393.9	16,126.3	949	604.4	18.8	21,033.0	13,977.0
Rural districts	2,678	300.7	17.1	7,314.0	5,963.8	2,812	329.1	18.1	7,070.0	5,452.0

Table 9 (Continued)

Republics	As of January 1, 1932							As of January 1, 1933			
	Number of savings banks	Number of depositors (in thousands)			Savings deposits (in thousands of rubles)			Number of savings banks	Number of depositors (in thousands)		
		Physical persons		Juridical persons	Physical persons		Juridical persons		Physical persons		Juridical persons
		Actual depositors	Deposits under required minimum (conventionally closed)		Actual depositors	Deposits under required minimum (conventionally closed)			Actual depositors	Deposits under required minimum (conventionally closed)	
A	21	22	23	24	25	26	27	28	29	30	31
U. S. S. R., Total	58,217	22,490.0	1,526.0	886.6	727,553.4	1,698.2	444,463.4	56,108	23,903.3	8,673.6	967.9
Cities	17,407	12,927.8	975.7	362.2	552,400.4	1,097.7	214,199.9	17,319	13,002.7	5,526.6	414.1
Rural districts	40,810	9,562.2	550.3	524.4	175,153.0	600.5	230,263.5	38,789	10,900.6	3,147.0	553.8
R.S.F.S.R., Total	38,232	14,810.2	1,034.6	602.4	499,189.1	1,148.9	276,699.0	36,113	15,092.6	5,759.4	645.3
Cities	10,993	8,500.9	634.0	267.2	385,941.2	721.8	140,537.0	10,786	8,235.5	3,528.8	268.2
Rural districts	27,239	6,309.3	400.6	335.2	113,247.9	427.1	136,162.0	25,327	6,857.1	2,230.6	377.1
Ukrainian S.S.R., Total	10,109	4,109.1	295.6	158.9	97,719.1	312.2	103,760.2	9,920	4,834.8	1,701.5	187.0
Cities	3,406	2,244.1	188.5	22.9	71,198.9	198.4	38,276.2	3,220	2,322.1	1,085.4	67.8
Rural districts	6,703	1,865.0	107.1	136.0	26,520.2	113.8	65,484.0	6,700	2,512.7	616.1	119.2

White Russian S.S.R., Total	1,630	650.2	43.7	20.8	17,434.7	46.0	14,454.4	1,480	724.9	249.3	27.7
Cities	412	333.3	30.6	7.7	12,435.6	27.1	5,298.4	583	459.1	174.4	14.7
Rural districts	1,218	316.9	13.1	13.1	4,999.1	18.9	9,156.0	897	265.8	74.9	13.0
Transcaucasian S.F.S.R., Total	2,105	746.2	24.1	16.8	24,112.2	33.9	7,414.9	1,956	964.0	232.4	22.5
Cities	724	491.0	16.9	8.3	17,612.6	23.7	2,969.4	621	499.8	162.7	10.9
Rural districts	1,381	255.2	7.2	8.5	6,499.6	10.2	4,445.5	1,335	464.2	69.7	11.6
Uzbek S.S.R., Total	1,166	591.4	17.1	16.7	26,216.5	22.3	8,912.6	1,212	668.6	207.9	11.3
Cities	390	258.5	11.1	10.6	16,970.4	14.5	3,784.7	429	331.5	135.1	9.4
Rural districts	776	332.9	6.0	6.1	9.246.1	7.8	5,127.9	783	337.1	72.8	1.9
Turkmenian S.S.R., Total	432	140.4	10.2	4.6	6,472.4	22.5	1,749.1	358	140.6	68.0	2.2
Cities	259	86.8	6.6	2.6	5,065.8	14.5	797.6	199	79.1	44.0	1.3
Rural districts	173	53.6	3.6	2.0	1,406.6	8.0	951.5	159	61.5	24.0	0.9
Tadjik S.S.R., Total	297	134.8	7.6	2.0	6,968.2	8.7	2,009.1	210	137.5	36.1	1.7
Cities	100	64.0	2.8	0.6	3,370.1	3.7	609.1	68	41.5	12.8	0.7
Rural districts	197	70.8	4.8	1.4	3,598.1	5.0	1,400.0	142	96.0	23.3	1.0
Railway Savings Banks, Total	4,246	1,307.7	93.1	64.4	49,441.2	103.7	29,464.1	4,859	1,340.3	419.0	70.2
Cities	1,123	949.2	85.2	42.3	39.805.8	94.0	21,927.5	1,413	1,034.1	383.4	41.1
Rural districts	3,123	358.5	7.9	22.1	9,635.4	9.7	7,536.6	3,446	306.2	35.6	29.1

Table 9 (Continued)

Republics	As of January 1, 1933			As of January 1, 1934						
	Savings deposits (in thousands of rubles)			Number of savings banks	Number of depositors (in thousands)			Savings deposits (in thousands of rubles)		
	Physical persons		Juridical persons		Physical persons		Juridical persons	Physical persons		Juridical persons
	Actual depositors	Deposits under required minimum (conventionally closed)			Actual depositors	Deposits under required minimum (conventionally closed)		Actual depositors	Deposits under required minimum (conventionally closed)	
A	32	33	34	35	36	37	38	39	40	41
U. S. S. R., Total	960,748.3	13,505.0	437,603.6	47,145	19,202.2	16,366.5	985.7	1,150,357.8	31,320.6	347,266.0
Cities	723,451.0	8,806.9	216,252.3	14,185	10,609.2	8,432.3	422.8	877,217.8	16,652.8	178,505.6
Rural districts	237,297.3	4,698.1	221,351.3	32,960	8,593.0	7,934.2	562.9	273.140.0	14,667.8	168,760.4
R.S.F.S.R., Total	667,829.1	8,982.9	296,900.2	31,239	12,505.0	10,784.5	662.3	804,801.3	20,585,5	244.071.7
Cities	510,232.5	5,643.5	146,434.2	8,992	6,758.5	5,458.9	267.9	613,826.2	10,885.5	119,900.4
Rural districts	157,596.6	3,339.4	150,466.0	22,247	5,746.5	5,325.6	394.4	190,975.1	9,700.0	124,171.3
Ukrainian S.S.R., Total	124,918.7	2,399.2	68,352.4	7,757	3,872.0	3,142.3	187.2	154,809.5	6,023.9	44,582.6
Cities	91,053.7	1,553.3	26,649.2	2,661	2,214.7	1,496.2	76.7	115,973.5	3,119.1	19,429.4
Rural districts	33,865.0	845.9	41,703.2	5,096	1,657.3	1,646.1	110.5	38,836.0	2,904.8	25,153.2
White Russian S.S.R., Total	23,451.1	360.0	15,859.0	1,297	553.6	459.1	25.4	27.660.1	776.9	10,823.0
Cities	18,861.2	252.1	8,772.7	515	385.8	281.1	15.9	23,246.7	465.9	6,702.6
Rural districts	4,589.9	107.9	7,086.3	782	167.8	178.0	9.5	4,413.4	311.0	4,120.4
Transcaucasian S.F.S.R., Total	28,625.3	418.6	11,632.7	1,491	731.2	538 6	20.3	32,447.9	1,147.5	8,056.1
Cities	19,229.9	293.0	4,443.9	420	359.6	307.7	8.9	22,889.2	597.6	3,897.7
Rural districts	9,395.4	125.6	7,188.8	1,071	371.6	230.9	11.4	9,558.7	549.9	4,158.4
Uzbek S.S.R., Total	28,296.6	336.5	7,036.3	1,085	522.3	421.9	10.3	29,998.9	851.1	3,512.0
Cities	14,649.7	218.1	2,498.3	343	173.4	142.6	4.3	19,059.4	251.0	1,308.0
Rural districts	13,646.9	118.4	4,538.0	742	348.9	279.3	6.0	10,939.5	600.1	2,204.0
Turkmenian S.S.R., Total	6,789.4	123.7	1,307.2	308	93.2	121.8	2.2	7,303.9	269.7	1,259.4
Cities	5,333.4	80.0	595.7	118	34.6	71.3	1.0	5,007.3	125.9	271.4
Rural districts	1.456.0	43.7	711.5	190	58.6	50.5	1.2	2,296.6	143.8	988.0
Tadjik S.S.R., Total	7,540.2	71.6	2,198.2	166	94.0	75.4	1.9	7,356.8	141.9	1,761.7
Cities	2,881.1	30.2	687.8	50	29.0	39.0	0.6	2,747.9	70.7	588.6
Rural districts	4,659.1	41.4	1,510.4	116	65.0	36.4	1.3	4,608.9	71.2	1,173.1
Railway Savings Banks, Total	73,297.9	812.5	34,317.6	3,802	830.9	822.9	76.1	85,979.4	1,524.1	33,199.5
Cities	61,209.5	736.7	26,170.5	1,086	653.6	635.5	47.5	74.467.6	1,137.1	26,407.5
Rural districts	12,088.4	75.8	8,147.1	2,716	177.3	187.4	28.6	11,511.8	387.0	6,792.0

Republics	As of January 1, 1935						
	Number of savings banks	Number of depositors (in thousands)			Savings deposits (in thousands of rubles)		
		Physical persons		Juridical persons	Physical persons		Juridical persons
		Actual depositors	Deposits under required minimum (conventionally closed)		Actual depositors	Deposits under required minimum (conventionally closed)	
A	42	43	44	45	46	47	48
U. S. S. R., Total	41,892	15,415.7	18,263.0	961.2	1,602,819.5	34,919.7	345,827.9
Cities	12,010	8,802.4	10,354.9	444.5	1,297,389.1	19,348.8	204,773.3
Rural districts	29,882	6,613.3	7,908.1	516.7	305,430.4	15,570.9	141,054.6
R.S.F.S.R., Total	28,859	10,111.7	12,025.6	645.9	1,197,732.1	22,548.2	205,752.3
Cities	7,794	5,720.5	6,775.4	279.2	970,445.4	12,161.9	106,173.3
Rural districts	21,065	4,391.2	5,250.2	366.7	227,286.7	10,386.3	99,579.0
Ukrainian S.S.R., Total	6,004	2,940.8	3,579.8	180.5	189,322.4	7,204.6	45,196.1
Cities	1,859	1,717.2	1,945.1	78.7	154,001.4	4,141.6	19,924.1
Rural districts	4,145	1,223.6	1,634.7	101.8	35,318.0	3,063.0	25,272.0
White Russian S.S.R., Total	1,115	473.7	485.3	23.0	38, 99.6	822.2	6,615.8
Cities	472	345.2	314.7	14.2	33,580.7	520.5	3,897.5
Rural districts	643	128.5	170.6	8.8	4,518.9	301.7	2,718.3
Transcaucasian S.F.S.R., Total	1,321	642.7	556.7	17.2	47,766.2	1,171.8	7,393.7
Cities	369	272.3	276.5	7.7	35,536.1	554.9	3,581.7
Rural districts	952	370.4	280.2	9.5	12,230.1	616.9	3,812.0
Uzbek S.S.R., Total	919	449.5	499.3	10.6	39,332.6	990.4	2,796.4
Cities	308	149.1	146.9	5.6	29,666.5	280.5	1,672.4
Rural districts	611	300.4	352.4	5.0	9,666.1	709.9	1,124.0
Turkmenian S.S.R., Total	238	67.9	123.7	2.5	10,638.7	289.1	1,326.7
Cities	111	43.0	68.8	1.6	8,353.2	158.7	783.8
Rural districts	127	24.9	54.9	0.9	2,285.5	130.4	542.9
Tadjik S.S.R., Total	137	84.2	72.5	1.7	9,285.4	144.6	743.5
Cities	36	23.1	28.5	0.7	4,241.5	56.0	308.9
Rural districts	101	61.1	44.0	1.0	5,043.9	88.6	434.6
Railway Savings Banks, Total	3,299	645.2	920.1	79.8	70,642.5	1,748.8	76,003.4
Cities	1,061	532.0	799.0	56.8	61,561.3	1,474.7	68,431.6
Rural districts	2,238	113.2	121.1	23.0	9,081.2	274.1	7,571.8

Table 10

Savings Banks Deposits (Physical Persons), 1933-1935: By Months

(In thousands of rubles)

	January	February	March	April	May	June	July	August	September	October	November	December	Total for year	Interest accrued	Grand total
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1933															
Total	337	—10,525	—21,541	8,534	—1,030	8,344	21,158	3,478	12,328	16,249	37,373	78,879	153,584	53,958	207,542
Cities	—7,985	— 8,157	—10,680	537	—2,294	14,009	19,084	4,906	7,910	10,713	26,475	65,242	119,760	41,973	161,733
Rural districts	8,322	— 2,368	—10,861	7,997	1,264	—5,665	2,074	—1,428	4,418	5,536	10,898	13,637	33,824	11,985	45,809
1934															
Total	49,493	24,364	32,573	29,665	45,027	43,112	38,822	11,695	12,399	7,517	32,337	86,366	413.370	77,742	491,112
Cities	34,823	28,510	34,301	27,012	41,565	36,775	37.148	11,771	11,605	6,657	31,221	85,071	386,459	62,641	449,100
Rural districts	14,670	— 4,146	— 1.728	2,653	3.462	6,337	1,674	—76	794	860	1,116	1,295	26,911	15,101	42,012
1935															
Total	62,714	57,515	77,299	43,657	70,617	83,967	54,901	9,293	11,750	35,990	52,918	151,110	711,731	119,078	830,809
Cities	49,804	57,064	68,222	33,718	64,794	72,410	54,758	10,228	11,897	32,979	51,137	130,262	637,273	99,930	737,203
Rural districts	12,910	451	9,077	9,939	5,823	11,557	143	—935	—147	3,011	1,781	20,848	74.458	19,148	93,606

Amount of Savings Deposits (Physical Persons): By Size of Deposits

(In millions of rubles, as at January 1)

	R.S.F.S.R.		Ukrainian S.S.R.		White Russian S S.R.		Transcaucasian S.F.S.R.		Uzbek S.S.R.		Tadjik S.S.R.		Turkmenian S.S.R.		Railway Savings Banks		Total U.S.S.R.	
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Cities																		
Up to 25 rubles	57.5	30.1	19.3	8.2	2.4	1.9	3.8	1.5	1.1	0.7	0.1	0.1	0.3	0.4	5.8	2.8	90.3	45.7
25— 100 rubles . .	83.7	56.0	18.0	11.6	4.1	2.5	4.5	3.4	2.2	1.1	0.7	0.1	0.7	0.5	9.2	4.7	123.1	79.9
100 — 500 rubles . .	168.7	210.4	28.7	28.6	6.6	7.7	6.6	9.2	4.6	4.8	0.4	0.7	1.5	1.6	16.1	15.3	233.2	278.3
500—1,000 rubles . .	123.5	216.9	21.5	33.2	6.6	8.0	5.1	10.5	4.1	6.8	0.8	1.1	1.2	1.5	14.6	14.0	177.4	292.0
Over 1,000 rubles	191.3	469.2	31.6	76.5	4.0	14.0	3.5	11.5	7.3	16.5	0.8	2.3	1.4	4.5	29.9	26.3	269.8	620.8
Total	**624.7**	**982.6**	**119.1**	**158.1**	**23.7**	**34.1**	**23.5**	**36.1**	**19.3**	**29.9**	**2.8**	**4.3**	**5.1**	**8.5**	**75.6**	**63.1**	**893.8**	**1,316.7**
Rural Districts																		
Up to 25 rubles	52.9	31.1	11.9	8.9	1.0	0.7	4.4	4.7	2.9	2.4	0.6	0.4	0.6	0.1	1.5	0.8	75.8	49.1
25— 100 rubles . .	45.4	34.0	11.3	7.3	1.0	0.7	2.2	2.3	3.4	1.7	1.4	0.9	0.4	0.4	2.5	1.0	67.6	48.3
100— 500 rubles . .	53.3	66.5	9.7	10.2	1.3	1.4	1.7	2.7	2.4	2.6	1.1	0.9	0.8	0.8	2.6	2.1	72.9	87.2
500—1,000 rubles . .	25.1	43.6	4.9	5.8	0.9	0.9	0.8	1.4	1.3	1.5	0.8	1.3	0.6	0.6	2.5	2.2	36.9	57.3
Over 1,000 rubles	24.0	62.5	3.9	6.2	0.5	1.1	1.0	1.7	1.5	2.2	0.8	1.6	0.1	0.5	2.8	3.3	34.6	79.1
Total	**200.7**	**237.7**	**41.7**	**38.4**	**4.7**	**4.8**	**10.1**	**12.8**	**11.5**	**10.4**	**4.7**	**5.1**	**2.5**	**2.4**	**11.9**	**9.4**	**287.8**	**321.0**
Cities and Rural Districts																		
Up to 25 rubles	110.4	61.2	31.2	17.1	3.4	2.6	8.2	6.2	4.0	3.1	0.7	0.5	0.9	0.5	7.3	3.6	166.1	94.8
25— 100 rubles . .	129.1	90.0	29.3	18.9	5.1	3.2	6.7	5.7	5.6	2.8	2.1	1.0	1.1	0.9	11.7	5.7	190.7	128.2
100— 500 rubles . .	222.0	276.9	38.4	38.8	7.9	9.1	8.3	11.9	7.0	7.4	1.5	1.6	2.3	2.4	18.7	17.4	306.1	365.5
500—1,000 rubles . .	148.6	260.5	26.4	39.0	7.5	8.9	5.9	11.9	5.4	8.3	1.6	2.4	1.8	2.1	17.1	16.2	214.3	349.3
Over 1,000 rubles	215.3	531.7	35.5	82.7	4.5	15.1	4.5	13.2	8.8	18.7	1.6	3.9	1.5	5.0	32.7	29.6	304.4	699.9
Grand Total . . .	**825.4**	**1,220.3**	**160.8**	**196.5**	**28.4**	**38.9**	**33.6**	**48.9**	**30.8**	**40.3**	**7.5**	**9.4**	**7.6**	**10.9**	**87.5**	**72.5**	**1,181.6**	**1,637.7**

Number of Depositors (Physical Persons):

(In thousands,

	R.S.F.S.R.		Ukrainian S.S.R.		White Russian S.S.R.		Transcaucasian S.F.S.R.	
	1934	1935	1934	1935	1934	1935	1934	1935
A	1	2	3	4	5	6	7	8
Cities								
Up to 25 rubles	4,597	3,023	1,546	1,086	271	228	247	142
25— 100 rubles . . .	1,303	1,092	460	336	75	55	77	65
100— 500 rubles . . .	620	974	153	172	29	39	26	40
500—1,000 rubles . . .	150	349	38	65	9	13	7	18
Over 1,000 rubles	89	282	18	57	2	10	2	7
Total	6,759	5,720	2,215	1,716	386	345	359	272
Rural Districts								
Up to 25 rubles	4,564	3,205	1,235	978	134	98	305	326
25— 100 rubles . . .	891	712	358	175	26	19	57	32
100— 500 rubles . . .	245	355	55	56	7	9	9	10
500—1,000 rubles . . .	33	78	8	10	1	2	1	2
Over 1,000 rubles	13	41	1	5	—	—	—	—
Total	5,746	4,391	1,657	1,224	168	128	372	370
Cities and Rural Districts								
Up to 25 rubles	9,161	6,228	2,781	2,064	405	326	552	468
25— 100 rubles . . .	2,194	1,804	818	511	101	74	134	97
100— 500 rubles . . .	865	1,329	208	228	36	48	35	50
500—1,000 rubles . . .	183	427	46	75	10	15	8	20
Over 1,000 rubles	102	323	19	62	2	10	2	7
Grand Total	12,505	10,111	3,872	2,940	554	473	731	642

Table 12

By Size of Savings Deposits

as at January 1)

Uzbek S.S.R.		Tadjik S.S.R.		Turkmenian S.S.R.		Railway Savings Banks		Total U.S.S.R.	
1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
9	10	11	12	13	14	15	16	17	18
93	82	13	11	18	24	397	308	7,182	4,904
46	22	12	2	9	10	168	110	2,150	1,692
22	26	2	6	5	6	60	73	917	1,336
7	10	1	3	1	1	17	24	230	483
5	9	1	1	1	2	11	17	129	385
173	**149**	**29**	**23**	**34**	**43**	**653**	**532**	**10,608**	**8,800**
257	245	40	33	49	12	112	80	6,696	4,977
77	34	19	19	7	8	50	18	1,485	1,017
12	18	5	6	2	4	12	10	347	468
2	2	1	2	1	1	3	3	50	100
1	1	—	1	—	—	1	2	16	50
349	**300**	**65**	**61**	**59**	**25**	**178**	**113**	**8,594**	**6,612**
350	327	53	44	67	36	509	388	13,878	9,881
123	56	31	21	16	18	218	128	3,635	2,709
34	44	7	12	7	10	72	83	1,264	1,804
9	12	2	5	2	2	20	27	280	583
6	10	1	2	1	2	12	19	145	435
522	**449**	**94**	**84**	**93**	**68**	**831**	**645**	**19,202**	**15,412**

Public Debt of

(In millions

Loans	As of			
	1922	1923	1924	1925
A	1	2	3	4
Total public debt	2.5	117.3	246.4	376.3
Exclusive of unclaimed interest on loans and loan premiums	2.5	117.3	245.0	367.2
I. **Commodity Loans** (raised in kind)				
First Grain Loan, 1922	2.5	—	—	—
Second Grain Loan, 1923	—	27.4	0.5	—
Sugar Loan, 1923	—	—	0.1	—
Total Commodity Loans	2.5	27.4	0.6	—
Same, exclusive of unclaimed interest and premiums	2.5	27.4	0.6	—
II. **Public Loans—Group I** ("Mass Loans")				
First Industrialization Loan, 1927	—	—	—	—
Second Industrialization Loan, 1928	—	—	—	—
Farm Consolidation Loan	—	—	—	—
Third Industrialization Loan, 1929	—	—	—	—
"Five-Year Plan in Four Years" Loan, 1st Issue	—	—	—	—
"Five-Year Plan in Four Years" Loan, 2nd Issue	—	—	—	—
"Five-Year Plan in Four Years" Loan, 3rd Issue	—	—	—	—
Second Five-Year Plan Loan, 1st year Issue	—	—	—	—
Second Five-Year Plan Loan, 2nd year Issue	—	—	—	—
Total for Public Loans (Group I)	—	—	—	—
Same, exclusive of unclaimed interest and premiums	—	—	—	—
III. **Public Loans—Group II** ("Market Loans")				
First State Loan, 1922	—	51.9	99.8	102.2
Second State Loan, 1924	—	—	33.1	70.8
First Peasants' Loan, 1924	—	—	37.2	46.8
Second Peasants' Loan, 1925	—	—	—	—
Internal State Loan, 1926	—	—	—	—
10 Per cent Internal Loan, 1927	—	—	—	—
Third Peasants' Loan, 1927	—	—	—	—
Internal Loan, 1929	—	—	—	—
9 Per cent Internal Loan, 1930	—	—	—	—
Internal Loan, 1932	—	—	—	—
Total for Public Loans (Group II)	—	51.9	170.1	219.8
Same, exclusive of unclaimed interest and premiums	—	51.9	169.3	215.1
IV. **Socialized Economy State Loans**				
Short-Term Internal Loan, interest-bearing, 5 per cent, 1925	—	—	—	10.0
Internal Loan, interest-bearing, 8 per cent, 1925	—	—	27.1	69.2
Internal Loan, interest-bearing, 12 per çent, 1927	—	—	—	—
Internal Loan, interest-bearing, 11 per cent, 1928	—	—	—	—
Internal Loan, non-interest-bearing, 1929	—	—	—	—
Internal Savings Bank Loan, interest-bearing, 10 per cent	—	—	—	—
Total Socialized Economy Loans	—	—	27.1	79.2
Same, exclusive of unclaimed interest and premiums	—	—	26.5	74.8
V. **Certificates Issued by Chief Cashier's Office**				
Central (Chief) Office of the People's Commissariat of Finance	—	38.0	48.6	77.3
VI. **Economic Recovery Loan**	—	—	—	—

the U. S. S. R. Table 18

of rubles)

October 1 of respective year					As of January 1 of respective year				
1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
5	6	7	8	9	10	11	12	13	14
669.8	943.1	1,394.8	1,967.6	2,586.8	2,934.6	6,221.0	10,080.0	14,369.2	18,303.4
657.0	921.5	1,368.2	1,911.7	2,504.8	2,838.1	6,012.8	9,762.5	13,955.9	17,821.8
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	7.7	202.3	165.3	102.7	60.5	9.7	8.3	2.7	20.2
—	—	8.2	349.6	231.2	139.5	25.9	21.4	9.9	
—	—	135.5	92.3	52.7	41.0	15.4	13.9	8.0	
—	—	—	44.4	798.3	815.7	822.1	809.9	776.3	715.8
—	—	—	—	64.1	428.8	1,329.7	1,337.4	1,296.7	1,237.2
—	—	—	—	—	—	962.8	1,882.9	1,747.0	1,550.9
—	—	—	—	—	—	—	1,502.7	2,680.4	2,624.2
—	—	—	—	—	—	—	—	2,150.9	3,032.0
—	—	—	—	—	—	—	—	—	2,628.9
—	7.7	346.0	651.6	1,249.0	1,485.5	3,165.6	5,576.5	8,671.9	11,809.2
—	7.7	336.7	615.6	1,197.8	1,412.0	3,014.4	5,316.6	8,340.4	11,432.5
105.0	104.3	103.6	78.9	59.6	44.3	25.9	8.8	10.2	9.4
53.0	39.1	19.0	3.5	2.9	2.9	2.8	2.7		
1.2	0.6	0.5	0.2	0.2	0.2	0.2	0.2		
82.0	95.6	—	—	—	—	—	—		
—	27.4	24.5	19.8	12.0	10.4	3.0	1.5		
—	105.5	105.6	106.3	77.0	73.5	56.9	43.5	30.6	20.8
—	8.9	4.2	4.1	0.3	0.2	—	—	—	—
—	—	—	25.4	19.7	19.2	27.6	31.4	37.7	40.1
—	—	—	—	4.2	5.0	15.4	19.1	25.3	36.5
—	—	—	—	—	—	—	29.4	38.6	79.1
241.2	381.4	257.4	238.2	175.9	155.7	131.8	136.6	142.4	185.9
234.5	370.5	247.0	227.1	165.1	145.5	121.7	126.2	130.6	171.3
0.1	—	—	—	—	—	—	—	—	—
110.6	223.0	321.9	497.9	273.9	370.1	1,786.8	2,887.9	3,941.9	4,313.7
—	41.2	187.9	198.1	197.1	197.1	195.2	180.2	145.4	28.2
—	—	71.0	263.8	288.4	287.7	292.4	296.1	296.9	50.2
—	—	—	—	112.7	112.4	112.2	111.3	111.3	111.3
—	—	—	—	284.8	321.5	532.5	887.6	1,055.8	1,801.3
110.7	264.2	580.8	959.8	1,156.9	1,288.8	2,919.1	4,363.1	5,551.3	6,304.7
104.6	253.5	573.9	951.0	1,136.9	1,276.0	2,872.2	4,315.9	5,481.3	6,214.4
78.5	103.6	86.8	52.4	5.0	4.6	4.5	3.8	3.6	3.6
239.4	186.2	123.8	65.6	—	—	—	—	—	—

Table 14

Public Debt of the U. S. S. R.: By Socialized Sectors and by Social Groups of Population [1]

(In millions of rubles)

Sectors and Social Groups	As at October 1 of respective year						As at January 1 of respective year				
	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
A	1	2	3	4	5	6	7	8	9	10	11
Total public debt	**367.2**	**657.0**	**921.5**	**1,368.2**	**1,911.7**	**2,504.8**	**2,838.1**	**6,012.8**	**9,762.5**	**13,955.9**	**17,821.8**
1. Socialized economy	245.6	548.9	748.4	957.2	1,382.6	1,217.5	1,338.3	2,895.3	4,319.7	5,484.9	6,218.0
Including savings banks deposits of general population	26.5	68.3	122.0	184.3	295.7	486.6	464.4	593.8	891.8	1,104.3	1,486.1
2. Population	121.6	108.1	173.1	411.0	529.1	1,287.3	1,499.8	3,117.5	5.442.8	8,471.0	11,603.8
a) Wage-earners and salaried employees	26.3	29.9	41.5	152.2	290.9	840.5	991.0	2,056.4	3,766.2	5,903.1	8,324.7
b) Peasants	22.7	2.4	10.3	108.4	70.7	241.3	302.3	780.0	1,270.8	2,040.1	2,616.7
c) Other groups of population	72.6	75.8	121.3	150.4	167.5	205.5	206.5	281.1	405 8	527.8	662.4
I. **Public Loans**—Group I ("Mass Loans")	—	—	7.7	336.7	615.6	1,197.8	1,412.0	3,014.4	5,316.6	8,340.4	11,432.5
1. Socialized economy	—	—	2.6	62.9	227.8	28.1	26.4	2.5	—	—	—
2. Population	—	—	5.1	273.8	387.8	1,169.7	1,385.6	3,011.9	5,316.6	8,340.4	11,432.5
a) Wage-earners and salaried employees	—	—	2.9	117.3	259.0	815.7	966.8	2,038.4	3,732.2	5,850.4	8,226.7
b) Peasants	—	—	0.2	105.1	68.6	240.8	301.9	779.8	1,270.6	2,040.0[2]	2,616.7
c) Other groups of population	—	—	2.0	51.4	60.2	113.2	116.9	193.7	313.8	450.0	589.1
II. **Public Loans**—Group II ("Market Loans")	215.1	234.5	370.5	247.0	227.1	165.1	145.5	121.7	126.2	130.6	171.3
1. Socialized economy	97.2	126.5	202.5	109.8	85.8	47.5	31.3	16.1	—	—	—
2. Population	117.9	108.0	168.0	137.2	141.3	117.6	114.2	105.6	126.2	130.6	171.3
a) Wage-earners and salaried employees	26.3	29.9	38.6	34.9	31.9	24.8	24.2	18.0	34.0	52.7	98.0
b) Peasants	22.7	2.4	10.1	3.3	2.1	0.5	0.4	0.2	0.2	0.1	—
c) Other groups of population	68.9	75.7	119.3	99.0	107.3	92.3	89.6	87.4	92.0	77.8	73.3
III. **Socialized Economy Loans**	74.8	104.6	253.5	573.9	951.0	1,136.9	1,276.0	2,872.2	4,315.9	5,481.3	6,214.4
1. Socialized economy	71.1	104.5	253.5	573.9	951.0	1,136.9	1,276.0	2,872.2	4,315.9	5.481.3	6,214.4
2. Population (population groups not included elsewhere)	3.7	0.1	—	—	—	—	—	—	—	—	—
IV. **Certificates issued by Central Office of the People's Commissariat of Finance** (socialized economy)	77.3	78.5	103.6	86.8	52.4	5.0	4.6	4.5	3.8	3.6	3.6
V. **Economic Recovery Loan** (socialized economy)	—	239.4	186.2	123.8	65.6	—	—	—	—	—	—

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[1] Exclusive of unclaimed interest on loans and loan premiums won.

[2] Including Collective Farmers, 1,455.0 millions of rubles; individual farmers, 585.1 millions of rubles.

Table 15

Credit Institutions of the U. S. S. R.

Date	Administrative Boards, Offices and Affiliated Branches								
	Total	State Bank of the U.S.S.R. (Gosbank)	Share holding banks conducting short-term credit operations	Cooperative banks conducting short-term credit operations	Banks for long-term credit to industry	Cooperative banks for long-term investments	Municipal credit system	Agricultural credit system	Mutual credit associations
A	1	2	3	4	5	6	7	8	9
As of Oct. 1, 1923	471	252	50	65	—	—	27	24	53
As of Oct. 1, 1928	1,308	599	16	87	7	—	125	237	237
As of Jan. 1, 1932	2,603	2,465	3	—	34	3	98	—	—
As of Jan. 1, 1933	2,946	2,199	3	—	97	25	134	488	—
As of Jan. 1, 1934	2,949	2,140	—	—	108	26	182	493	—
As of Jan. 1, 1935	3,101	2,313	—	—	108	31	175	474	—

Credit and Clearing Operations

(In millions

Organizations	Total indebtedness, as of			
	1929	1930	1931	1932
A	1	2	3	4
Total	**3,028.8**	**4,639.5**	**5,657.7**	**10,306.4**
Including:				
1. People's Commissariat of Heavy Industry[1]	628.1	844.0	853.2	572.6
2. People's Commissariat of Light Industry	646.9	597.3	434.2	801.2
3. People's Commissariat of the Timber Industry	171.6	279.7	660.8	462.6
4. People's Commissariat of Food Industry and Committee of Products Collections Attached to the Council of People's Commissars of the U.S.S.R.	481.3	966.4	1,015.2	2,356.5
5. People's Commissariat of Internal Trade	35.2	101.6	268.9	436.9
6. People's Commissariat of Agriculture, People's Commissariat of State Farms and Collective Farms[1]	176.4	180.0	334.0	792.3
a) People's Commissariat of Agriculture and Collective Farms[1]	171.6	168.9	181.8	339.1
b) People's Commissariat of State Farms	4.8	11.1	152.2	453.2
7. Agricultural Cooperatives	203.3	487.4	726.3	321.7
8. Transport[1]	53.1	36.5	178.4[3]	415.8
9. Communications System (post, telegraph, telephone, radio)	4.0	1.0	3.7[3]	1.9
10. People's Commissariat of Foreign Trade	228.6	342.6	253.8	298.2
11. Consumers' Cooperatives and Workers' Supply Departments	265.3	438.2	1,238.2	1,415.5
12. Handicrafts Cooperatives	79.6	156.7	158.2	403.4
13. Local Industry[2]	no data	no data	102.8	303.6

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[1] Including lumber enterprises.
[2] As of January 1, 1929 and 1930 total indebtedness of local industry was included in data
[3] Credit balance.

able 16

of the State Bank of the U.S.S.R.

of rubles)

January 1			Net indebtedness, as of January 1						
1933	1934	1935	1929	1930	1931	1932	1933	1934	1935
5	6	7	8	9	10	11	12	13	14
10,381.7	**14,221.9**	**17,377.6**	**2,655.9**	**3,769.7**	**5,657.7**	**6,190.8**	**6,642.9**	**10,564.2**	**13,922.5**
876.0	1,300.1	1,962.4	535.0	697.4	853.2	80.8	411.0	646.9	1,357.7
1,004.0	1,297.3	1.038.1	607.3	563.1	434.2	636.4	839.0	1,132.0	888.9
444.8	643.3	622.8	142.7	246.4	660.8	264.5	364.9	566.7	562.6
2,579.3	3,513.3	4,449.5	476.5	1,068.0	1,015.2	1,548.5	1,926.0	2,996.4	4,051.1
560.4	971.4	1,364.5			268.9	334.0	419.9	880.9	1,251.0
1,037.5	904.1	1,006.4	172.9	167.8	334.0	453.8	724.1	621.8	783.8
619.6	534.7	599.9	168.1	156.7	181.8	40.0	368.5	307.4	428.3
417.9	369.4	406.5	4.8	11.1	152.2	413.8	355.6	314.4	355.5
321.7	314.0	299.4	178.7	447.2	726.3	315.5	264.9	288.6	293.7
439.8	513.1	611.0	19.0	32.7 3)	178.4 3)	36.6	9.4	80.0	135.9
1.2	2.4	1.2	4.0		3.7 3)	25.1 3)	64.6 3)	76.8 3)	111.4
309.0	466.7	362.4	203.6	304.4	253.8	199.0 3)	88.0 3)	72.3	80.8
2,021.6	3,459.4	4,507.9	232.6	407.9	1,238.2	989.5	1,633.9	3,056.2	4,119.4
443.5	423.5	494.4	72.6	126.9	158.2	145.4	220.0	240.5	293.7
236.2	221.7	480.3	no data	no data	102.8	48.5	43.6	197.8	372.1

for respective People's Commissariats.

Table 17

Financing of Capital Construction within U.S.S.R. Organizations by the State Industrial Bank ("Prombank")

(In millions of rubles)

Commissariats and Branches of Industry	1929-30	Special quarter of 1930	1931	1932	1933	1934
A	1	2	3	4	5	6
1. People's Commissariat of Heavy Industry	1,848.8	563.9	4,522.6	6,148.8	5,486.2	5,378.2
Including:						
a) Coal industry	263.9	49.7	381.2	575.8	470.6	472.5
b) Petroleum industry	131.9	42.4	395.0	402.6	509.6	667.8
c) Peat extraction	41.5	9.4	104.1	127.4	92.8	93.6
d) Ferrous metals industry	414.9	145.9	1,169.9	1,830.4	1,817.8	1,659.2
e) Non-ferrous metals industry	89.7	24.0	297.3	536.4	529.5	465.6
f) Machinery	440.2	138.8	1,055.3	1,188.3	923.4	875.7
2. Electrification	280.9	128.3	622.2	710.0	612.6	704.0
3. People's Commissariat of Light Industry	129.3	24.3	106.9	173.8	316.4	504.2
Including:						
a) Textile industry	122.2	16.4	69.5	99.5	202.9	327.3
4. People's Commisssariat of the Timber Industry	41.1	70.8	359.4	386.5	299.9	332.7
5. People's Commissariat of Supply and People's Commissariat of Foreign Trade	230.0	106.5	565.9	791.4	598.6	656.7
6. People's Commissariat of Railway Transport	—	—	—	—	1,058.4	2,988.7
7. People's Commissariat of Water Transport	—	—	—	—	239.7	730.6
8. Other branches and undistributed	115.2	87.8	367.0	751.2	567.5	1,862.2
Total	2,645.3	981.6	6,544.0	8,961.7	9,179.3	13,157.3

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